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Southern Skies

Summer 2009

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STS125-4 Atlantis, May 12, 2009 Credit: Ge	eorae Fleen

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President's Message

Jon Elvert Irene W Pennington Planetarium Baton Rouge, LA

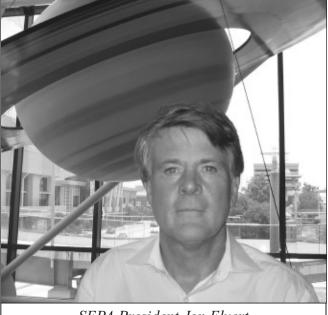
As I write this message, the 2009 SEPA-Western Alliance Conference has just come to a close. The four very long days and four very short nights were hosted by the Adventure Science Center in Nashville, Tennessee and by the Sudekum Planetarium's Director Kris McCall and her tireless staff Drew Gilmore and Theo Wellington, who provided a warm hospitality, good food, and a chance to connect again with good friends. There were more than 125 delegates from SEPA, PPA, RMPA, SWAP,

Rates and submission formats for advertising space in SEPA's quarterly journal <i>Southern Skies</i> are:					
Rates	Dimensions				
\$100.	Full-page	7"	wide	х	10"
high					
\$50.	Half-page	7"	wide	х	4.5"
high					
\$25.	Quarter-page	3"	wide x	4"	high

These rates are per issue and in B&W copy. The entire back cover of our journal is also available either in B&W for \$125, or in color for \$150. A 10% discount to any size ad can be offered only with a year's (four issues) commitment of advertising. Ads accepted on a space available basis. Ads must be camera ready and conform to dimensions listed. Payment must accompany advertisement order, made payable to the Southeastern Planetarium Association (send payment to Secretary/ Treasurer Mickey Jo Sorrell). The underlying mission of our advertisements is to promote resources, products, and services related to the planetarium profession. SEPA reserves the right to refuse advertisements. GPPA, GLPA, MAPS, and as far away as APS (Australasian Planetarium Society). If you haven't already seen the posted photos of the conference, go to the Sudekum web page and connect to the Flickr.com site.

The SEPA 2009 conference provided plenty of opportunities for informal professional exchange, a wealth of educational experiences, and a chance to meet vendors and see their latest technology, software and show products. I was especially pleased with the quantity and quality of the paper sessions, the workshops and the products and demonstrations in the vendor/exhibit area. I wish also to thank the SEPA Council for their work in supporting Kris and her staff whenever possible. Council met for three hours immediately after the opening reception, so Council members unfortunately missed several showings in the planetarium. Speaking of planetarium shows, I counted 34 shows and vendor demos that took place in the planetarium over four days - that's probably a SEPA record. This conference could not have been possible without all of you who attended and contributed to the exchange and sharing of ideas. Equally important are the vendors and sponsors whose financial support makes such a conference possible and who continue expanding the tools and ideas to help make our profession innovative and interesting for our planetarium audiences. Again, my sincere thanks to Kris and the entire

(Continued on page 14)



SEPA President Jon Elvert

IPS Report

John Hare **ASH Enterprises Bradenton**, FL

IPS 2012 will be in Baton Rouge!

The IPS Council voted on the conference site for 2012. Baton Rouge was selected over San Francisco after strong arguments were presented by both prospective hosts. Toulouse, France withdrew their invitation due to financial considerations. The dates for the Baton Rouge conference are July 22 - 26. This will mark the third time IPS has met within the SEPA region; the first being Richmond, VA in 1988 followed by Cocoa, FL in 1994.

Preliminary conference invitations were announced for the 2014 site. So far Rio de Janeiro, Brazil, Toulouse, France, and Athens, Greece have indicated they will submit formal bids. The deadline for receiving site bids is June 25, 2010. If you're site is interested in submitting an invitation please contact me for bidding details.

IPS 2010 will be held in Alexandria, Egypt next June 26-30. The conference Website is www.bibalex.org/ ips2010/home/home.aspx. Visit the Website often for updates regarding the Conference as well as pre and post-conference tours.

The IPS Directory and Resource Guide will be published later this year and will be distributed to current members. The publication will be produced on CD with printed copies available on request. If possible, please review your current listing and furnish updates including equipment, personnel, and contact information, to Publications Chair, Dale Smith <dsmith@newton.bgsu.edu> no later than October 15th.

On a related topic, IPS is attempting to expand their data on portable planetariums, many of which exist under the radar. If you have a portable dome or know of one in your area please forward that information to Dale Smith!

IPS has established a committee to research and commemorate IPS members who are deceased. Committee members are Ian Mcclennan <ian@mclennan.com>, Dale Smith, and myself. Please forward any and all information you may have in this regard.

Paul Campbell Fellowship Award Nomination Form

Nominees must have been a member of SEPA for at least ten years, and they must display qualities in each of five areas, as represented by the five-pointed star shaped award: integrity, friendship, service, knowledge, and vision. Please submit this form to any SEPA Council member.

Nominee's	Name:

Qualifications:

Editor's Message

James Sullivan Buehler Planetarium & Observatory Davie, FL

What a great conference! It was wonderful to see and visit with everyone. Thanks again for the contributions to the journal. Please keep them coming.

We can receive electronic files in most any format. Also, graphics can be received electronically or in hardcopy, including slides or photos, and will



be converted to digital with sufficient resolution.

Submission deadlines: January 1 (Winter), April 1 (Spring), July 1 (Summer), October 1 (Fall).

SEPA Membership Form

Please send your check to SEPA, c/
ium & Science Center, CB#3480 UN
One Year, \$25 (\$15 outside SE
Two Years, \$40
Name
Organization
Planetarium
Address
City
State / Zip Code
Voice Phone
Fax Phone
Email Address
Staff Position
IPS Member? Yes
Contribution to Scholarship Award A

This used projector is suitable for up to 30 ft. domes and is an excellent opportunity to upgrade to a digital, fulldome theater.
Further information about the projector can be found at http://www.mediaglobeplanetarium.com/mg1.html
This is a bid-based sale, minimum bid \$35,000.
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Gary Meibaum, Planetarium Director
St. Charles Parish Library
PO 949 Luling, LA 70070
985-785-8471
gary.meibaum@stcharles.lib.la.us

Thanks to Broward College and its wonderful printing department for assistance.

/o Mickey Jo Sorrell, Morehead Planetar-NC-CH, Chapel Hill, NC 27599. EPA geographical region)

No Account: \$

Small Talk

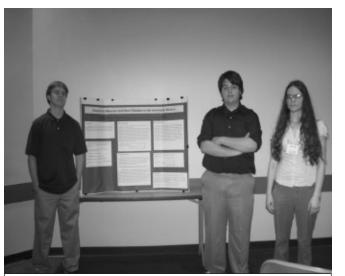
Elizabeth Wasiluk Hedgesville High School Planetarium Hedgesville, WV

Hey folks. Well the 2008-2009 school year is a wrap, here in Hedgesville, WV. I could have gone home at 1:00 p. m. and I probably will, but first I wanted to write up my reflections from the end of the school year.

On the 16th of April, I posted a sign for my astronomy students to meet in the science computer lab. I taught in "The Pod" a portable building outside of the school that contains 10 classrooms and has four bathrooms. There is both a stairway and a handicapped ramp leading up to the doors of "The Pod" and on this particular day, it had rained and then gotten cold and the water froze on the wood surface of the handicapped ramp and stairs leading to "The Pod." It was seven in the morning and the custodians had put salt on both the handicapped ramp and the stairs. Walking up the ramp, I noticed that it was slippery and made a mental note to try the stairs on the way down. But I had other things on my mind and coming down, I slipped and fell and either twisted my right arm and/or fell on it. I went on to teach and do hall duty, but it throbbed and hurt, so I put ice on it. I eventually made an appointment to get to see my doctor. She thought that it might be broken, so I drove for an X-ray and sure enough, ended up getting a splint and a cast on it. It just came off on June 4th. The month of May came and I suffered from both severe nosebleeds and



a kidney stone, yet I was able to take three of students my who have been searching data from the Robert C. Byrd Radio Telescope using an on-line data base at http://



Students at Capstone Event: My high school astronomy students at West Virginia University in May presenting a paper on "Dispersion Measure". They are Cory LeMaster, April Whitt and Nathan Martin.



The Robert C. Byrd Radio Telescope

pulsarseachcollaboratory.com, to a year end event at West Virginia University, (WVU) at Morgantown, WV along with other students their own age who have been searching for pulsars using the on-line data. They wrote and delivered a poster paper on one aspect of their work and showed it to many of their peers and the scientists from WVU. They also toured the physics, astronomy, engineering, and chemistry departments of the university to get an idea of the types of careers they could prepare for at the university. One thing came across loud and clear. Don't skimp on the math in high school.

Of course, once school let out, the very next week I was off to Nashville to the joint Southeastern Planetarium Association/Western Alliance Conference.

It was great to see everyone after having to miss last year's meeting in Lafayette, LA. Added to the excitement, was seeing old friends who live and work in the Western Alliance area. People like Mike



Sudekum Planetarium

know if there were any teachers in the workshop or not, but whatever people were doing in the workshop, they sounded like they were definitely having fun.

Me, I enjoyed attending a simple workshop given by Derek Demeter at Seminole Community College about "Hacking Planetarium Projectors: True Black with a \$3000.00 or less video projector." Great advice for the poor, small sized, small budgeted, small staffed planetarium like myself who can't yet afford to go full dome video, but wishing to upgrade their video projector.

Friends have been telling me that everyone has been praising the conference. It was fun, there was great food, plenty of Woodchuck, and much time to check out the vendor's area and crammed full of plenty of



Telescope at observatory: We had fun looking through this telescope at Saturn for the planetarium conference.

Murray from Clark planetarium shows to view. There was also ample Planetarium as well time to chit/chat with folks during breaks, meals as Duke Johnson. It and on the way to and from the awesome observatory trip. Speaking of the observatory trip, it was was fun oohing and ahhing at Duke's just icing on the conference to see the meteors, satwonderful pictures ellites and amazing view of the M51, the Whirlpool taken amongst the Nebula while there.

Bridge Scenery of The sky of the Hybrid Chiron was truly breathtaking, as easily demonstrated during the constellation shootout. (What was I thinking entering with admit, I really did enjoy the people Robert Bonadour and Martin Radcliff and Adam who were taking the Thanz anyway?) Heck I had fun in spite of it all. workshop he gave



Natural

Utah. And I must

called "Teachers

Gone Wild," I don't

lovely

Star Projector: The Chiron/ *Hybrid projector was* literally the star of the conference.

Three sad notes did temper the joy of activities in Nashville. Carole Holmberg had her facility close and was unable to join us from Florida. Hurry and find another job, Carole, for despite us making our best attempts to welcome the newcomers at the conference, we did miss your welcoming message and smiling face.

Gary Meibaum, was too sick to attend the planetarium conference and Linda Hare had a card for people to sign. Gary hurry and get well.

The other was that news came to us from Phil Groce that planetarian Sue Grisward passed away on January 25 of this year. Sad news indeed for someone once so active in SEPA. Many of you have memories of going to the conference she hosted in Charleston, SC. I have many nice memories of joining her and her husband John on a sponsored eclipse cruise in 1991. What a wonderful time! I also learned what a gracious hostess and host they were. I later had went up to see her planetarium facility in Charleston and stayed with her and her husband over night on my way back from the planetarium conference in Roper Mountain. They introduced me to "Highlander," one strange movie. Sue, for those who don't know her, was fun-loving,

(*Continued on page 15*)

Archeoastronomy

North American Archaeoastronomy: Sites of the Eastern Woodlands, Hopewell Mounds of Ohio

Woodrow W. Grizzle III Jonesville, VA

When we think of archaeoastronomy, we tend to think of far off places, with grand stone towers and megaliths stretching to the heavens. Yet, it turns out that there are places of archaeoastronomical interest here in North America. Teaching about them in the planetarium is a great way of getting audiences excited about indigenous american history and culture. What follows is a brief overview of studies published about the Hopewell mounds found in central Ohio, near Newark and Chillicothe.



Hand. Carved Mica. Hopewell. A.D. 100-400. Ohio. U.S. Department of the Interior 2005, public domain.

This mica carving is an example of the sorts of items traded along the "Hopewell *Road," connecting Hopewell* populations from the Great Lakes to the Gulf of Mexico.



Bird's Claw. Carved Mica, Hopewell, A.D. 100-400. Ohio. John Weinsten. © The Field Museum 2009

Another example of high Hopewell art and traded goods.

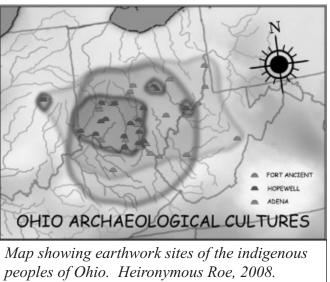
The Hopewell tradition spanned the Northeast and Midwest of North America from about 200 B.C. to A.D. 500. Hopewellian tradition, unlike many other indian populations, is not a single tribe, but a collection of populations connected by a network of trade routes. Through these routes, goods, services, and ideas flowed through a relatively large geographic area. These indian cultures represent centuries of advancement in art and mound building. It is Hopewell mounds that are of great archaeoastronomical interest.



Map showing the components of the Hopewell Interaction Sphere. Heironymous Roe, 2008.

This map shows the large geographic area inhabited by the various peoples of the Hopewell tradition of trade. This article discusses the earthworks of the Ohio Hopewell, formerly inhabiting the area of and around the presentday state of Ohio.

The Hopewell mounds are found in many areas, but the most interesting ones with regard to archaeoastronomy are found in the Ohio Valley. While the complete purpose of the mounds' construction is not currently understood, there has been great evidence uncovered that suggests that they have, at least, some astronomical alignment features. Geometric patterns, such as octagons and circles are common in Hopewell mounds. While no stellar alignments have been found, there are many scientists who feel that some mounds possess lunar and even solar alignments. Dr. John Eddy of the High Altitude Observatory in Boulder, Colorado, proposed such lunar alignments in an unpublished paper in 1978 for a large octagonal mound complex in Newark, Ohio. He and Dr. Bradley T. Lepper, Curator of Archaeology at Ohio Historical Society proposed that the octagonal mound at Newark was a lunar observatory of sorts, oriented to the 18.6 year lunar cycle of maximum and minimum risings and settings. Lepper stated in 1998 that indigenous peoples strongly incorporated astronomical markers into even the earliest earthworks. He concentrated on "pivotal horizon points" and lunar alignments, much as did Eddy.



Owing to the Hopewell tradition of trade, Lepper further suggested that a "Great Hopewell Road" once joined Newark's astronomical center with similar structures 60 miles away in Chillicothe, Ohio. Common measurement units used in both locations form the backbone of his hypothesis. Notably, the two structures are exactly the same size, but are rotated 90° with respect to each other.

While most potential alignments appear to be lunar,



Mound Complex. Chillicothe, OH. Heironymous Roe. 2008.

there does appear to be scant evidence of at least some solar alignment. Christopher Turner noted that the Fairground Circle, part of the Newark complex, aligns to sunrise on May 4, corresponding to Beltane cross quarter. Further exact solar alignments are hard to discover, as many mound sites have been flattened or otherwise altered over the years by plowing and the development of an on-site golf course. Despite this misfortune, with greater measurement, Turner was able to hypothesize that many of these earthworks contain markers not just of the Beltane cross quarter, but for all the points of the Grand Octal, including equinoxes, solstices, and the other three cross quarters of Lughnasadh, Samhain, and Imbolc.

Through the work of Eddy, Lepper, and Turner, it seems that the Hopewell showed great advancement in their knowledge of celestial motions. It remains

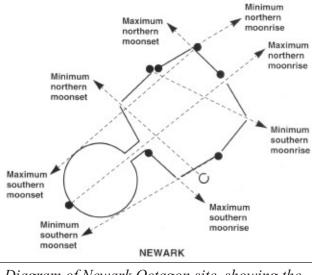
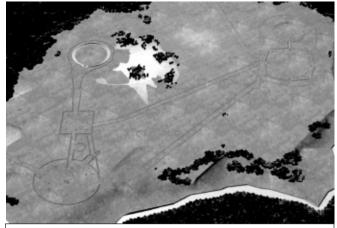


Diagram of Newark Octagon site, showing the various lunar alignment points. Octagon Moonrise, 2005

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Archeoastronomy (Continued from page 9)



Newark Mound Complex. Center for Electronic Reconstruction of Historical and Archaeological Sites, University of Cincinnatti. 2009.

unclear how these mounds and this knowledge were used. One can easily speculate that it must have had something to do with agriculture or religious rites. Notably, many of the mounds contain burials of various sorts, which may allude to their spiritual use. Some things may never be known for sure, but the fact remains that, wherever and whenever we look, we find people looking up and seeking answers in a world that, without the heavens' external reference frame, can seem quite chaotic.

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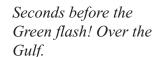
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Green Flash of the Sun

James Hook Lumberton, NC

The clear skies and evening sunsets over the ocean were to make a wedding-to-be, one to remember. The dates were April 21, 22, and 23, 2009 in Redington Beach, Florida. A host of individuals were in attendance for a wedding party on the 23rd, for Marianne Beitelshees and Joe Morgan's marriage on the 25th., and I observed the evening sky and it was again exceptionally clear as it had been the previous two evening when I observed the green flash as the sunset over the gulf. I hoped the setting sun might show off its colors again at the proper time and if it did, this would be a rare event on three consecutive evenings. I told two or three people about the possibility of seeing a green flash at sunset and the message spread throughout the guests on the Redington Beach Strand like wild fire.

The time of reckoning was beginning when the sun started its majestic slide down the vault of the sky. It was known in eons past as the dying of the day, and now the Sun was etching its way down. All



eyes were looking at the setting sun as its rim began to touch the distant horizon over an ocean; the Gulf of Mexico.

The sun slowly began to touch the distant horizon. It appeared to flatten out on the bottom edge,

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Bookends

Robin Byrne Northeast State Community College Blountville, TN

A Traveler's Guide to Mars by William K. Hartmann

I'd like to continue to contribute to the SEPA journal by writing about another book I recently read: "A Traveler's Guide to Mars: The Mysterious Landscapes of the Red Planet" by William K. Hartmann. If you are interested in Mars or planetary geology, this book is for you. The author was one of the participating scientists for the U.S. Mars Global Surveyor MIssion, and has a long history in Mars research. He shares not only the historical progression of discoveries (including his own) about the nature of Mars, but also recent findings from Global Surveyor.

He begins with a brief overview of the historical ideas and discoveries, including notions of canals on Mars. This then leads to the bulk of the book, which is divided into three main sections, divided by major geologic eras of Mars. It begins with the Noachian era, which encompassed the first billion years of Mars' existence. This era was dominated by very active geology, a denser atmosphere and, potentially, significant amounts of running water on the surface. We next enter the Hesperian era, which lasted up to about 2 billion years ago (give or take a few hundred million years). During this era, water activity on Mars declined, with less and less frequent water flows occurring. The last era is the Amazonian, which brings us to present-day Mars. This is the Mars we recognize, with little to no geologic activity, very few cratering events, and hardly any evidence of liquid water.

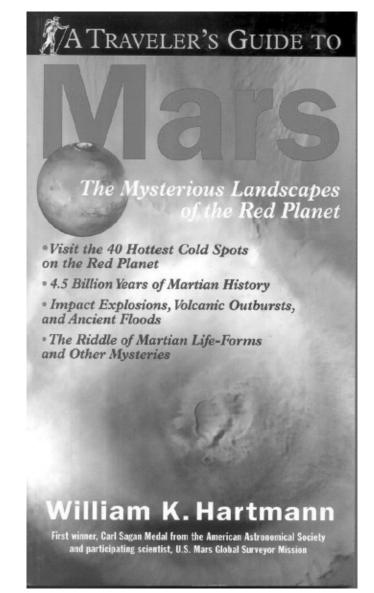
For each geologic era, Hartmann focuses on regions of Mars that give clues to the Martian conditions at each time, making excellent use of Global Surveyor imagery throughout. There may be an entire chapter devoted to a single crater, volcano or other feature

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and what it can tell us about what has occurred, with particular emphasis placed on water evidence. Other chapters look at larger regions, but still finely focused on the details revealed by Global Surveyor. Interspersed are Hartmann's personal reflections and experiences. He has been involved with Mars probes since Mariner 9, and almost every chapter includes

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SEPA

SEPA Business Meeting Nashville, TN June 18, 2009 1:45 pm Minutes by Mickey Jo Sorrell

President Jon Elvert introduced the SEPA Council, Journal Editor James Sullivan, Webmaster Drew Gilmore, and Parliamentarian Dave Hostetter. Secretary/Treasurer Mickey Jo Sorrell established that a quorum was present.

Conference Host Kris McCall offered announcements.

OLD BUSINESS:

The minutes of the 2008 Business Meeting were distributed and approved. (Linda Hare/Groce) The Treasurer's Report (July '08-June '09) was distributed and approved. (Fleenor/Whitt)

Mickey Jo Sorrell gave an update on the committee to establish a conference scholarship fund. Scholarships will be available for the 2010 conference. Dave Maness announced the scholarship fundraising auction for Friday night during the cocktail hour before the banquet. WAC members were invited to attend. Items for auction should be given to Dave. Phil Groce urged the Council to move forward with scholarship fund raising, encouraging vendor participation. George Fleenor suggested that a transfer from the SEPA savings account could jumpstart the availability of funds.

James Sullivan offered a journal update, asking members to continue to send in articles and photos, consider writing an occasional column, and provide information to the state coordinators. Online availability of journal issues was discussed, not to replace hard copies, but for accessibility. Past journal issues are already available on the SEPA website. Discussion included gauging member interest and protection of this member benefit. If the current issue is available online, should it be password protected? The current system seems to be working for now, so no plans were made for a change. Drew Gilmore offered a website update. Thanks to Duncan Teague, journals back to the 90s are available on the SEPA website. John Hare offered to contribute journals back to the 70s. Drew reported that it is possible for SEPA to take payments online through the website if desired.

NEW BUSINESS:

Adam Thanz updated the membership on plans for the 2010 conference at Bays Mountain Park, Kingsport, Tennessee. The keynote speaker will be Dava Sobel and Chuck Brodsky will provide entertainment.

Two attractive and generous bids were offered for the 2011 conference:

* Steve Morgan invited SEPA to Rollins Planetarium at Young Harris College in the mountains of north Georgia, June 21-25.

* Chuck Rao of Mayborn Planetarium in Killeen, TX, invited SEPA to join the WAC conference the third week of June, 2011, on the campus of Central Texas College.

After some discussion about the dates and a possible conflict if SEPA chose Young Harris (especially for vendor support), SEPA members took a straw vote (YH 15, TX 10, Abstaining 5), and Council agreed to discuss this further and announce a decision at the Friday night banquet.

John Hare offered an IPS report. Currently 60% of SEPA's members are also IPS members. 80% of the new members are IPS members. An updated IPS directory will be published this fall. The next IPS conference will be June 26-30, 2010, in Alexandria, Egypt. At the upcoming IPS Council meeting, the 2012 conference site will be selected. Two bids are active: Baton Rouge and San Francisco. SEPA members took a straw vote, strongly supporting Baton Rouge as the site of the 2012 conference.

Linda Hare gave an update on Gary Meibaum who was absent - and missed - at this year's conference.

Jon Elvert recognized WAC for their attendance at SEPA's 2009 conference.

The business meeting was adjourned. (Bell/Talley)

SEPA

2009 Treasurer's Report for the Southeastern Planetarium Association Submitted by Mickey Jo Sorrell June 18, 2009

All funds held at Branch Banking and Trust Company, Chapel Hill, North Carolina.

Balances as of 6/1/09:		
Operating	1,138.27	
Savings	24,380.73	
Scholarship	2,153.58	
Total	27,672.58	
Operating Account		
Balance (07/1/08)		3,474.29
Income:		
Memberships	4300.00	
Journal Ads	1280.00	
"The Planets"	260.00	
Transferred from saving		
Total Income		7,840.00
Total credits		11,314.29
Expenses paid: Journal (five issues) Copying/Mailing/Office Plaques '10 Conference seed me Let There Be Night DV 2008 Conference Web host Total Debits Balance	e 12 12 oney 5,75 Ds 40 1,29	01.86 22.46 29.82 50.00 09.65 05.43 56.80 (10,176.02) 1,138.27
Savings Account (7/1/08	የ)	26,065.03
Interest earned	~	315.70
Transferred to Checking		(2,000.00)
Balance		24,380.73
Dululio		- 1,000170
Scholarship Account (7)	/1/08)	1,656.58
Auction	*	162.00
Donations		335.00
Balance		2,153.58
		, -

Green Flash (Continued from page 10)

"going down fast," I said. It then seemed to go in slow motion, half of the sun was now gone. All eyes were peering at the distant scene, the sun then finally, swiftly, slipped below the ocean and in a micro second the brilliant Green Flash appeared and was gone. The event was over!

Individuals that saw the flash were ecstatic and expressed a joy for having witnessed such a spectacular event. Someone indicated this event would be the beginning of an excellent marriage for Marianne and Joe. Scott Beitelshees, Linda Beitelshees, (Mother of Brideto-be) Elizabeth Andrews, Heather Halford, and Susan Hooks were elated at what they had witnessed. One or two people questioned out loud - "it was the retina of the eye that caused the green flash."

I have looked for this event over a period of fifty (50) years without success, and it is astonishing that I finally observed it three evenings in consecutive order. I am indeed overjoyed for such an astronomical occurrence. I have looked for this special show of the sun in Mykonos, Greece; Key West, Florida; Ocean Isle Beach, and over the broad waters of the Pamlico Sound, North Carolina. The individuals that observed this special sunset saw it the first time they were aware of the Green Flash. This gave me a feeling of pleasure, and something to remember.

Bookends (Continued from page 11)

some of his memories of his earlier studies, discoveries, and how they relate to what we now know about Mars. Additionally, Hartmann is an accomplished space artist, with many of his illustrations gracing the pages of the book.

After reading this book, I felt like I had just completed a semester course dealing solely with Mars. It took me a couple months to finish. There's so much information, I needed time to digest what I had read before moving on. It's not a light read, or one for the beach, but "A Traveler's Guide to Mars" is an excellent way to learn almost everything we currently know about Mars, without having to pay the cost of tuition.

President's Message (Continued from page 3)

Adventure Science Center organization, as well as to the vendor support.

The SEPA business meeting is an important component to our conferences, but since this is not an election year and that we had no changes to our By-Laws our business meeting was consequently short. Adam Thanz reported extensively on how his facility is preparing for SEPA 2010 at Bays Mountain Park & Planetarium in Kingsport, TN. Mark your calendars for 8-12 June of next year for what looks like an incredible conference. The Art of Storytelling is the conference's theme and Dava Sobel will be the keynote speaker. The Bays Mountain Planetarium recently completed a \$1.3 million upgrade that included a Zeiss Skymaster ZKP 4 projector with a Zeiss Spacegate Quinto full-dome video projection system along with the Uniview 3-D database/ interface. The MeadowView Marriott resort is our conference hotel and is located in the rolling foothills of the Blue Ridge Mountains. For further details go to www.sepadomes.org and click on the link to the Bays Mountain SEPA 2010 link.

In other business, Dave Hostetter from Lafayette, LA was reappointed as our parliamentarian. And after much debate, Council members decided upon the Rollins Planetarium at the Young Harris College in Young Harris, Georgia as our SEPA 2011 conference site. Steve Morgan will be our conference host. SEPA members declined a conference invitation for 2011 from the Mayborn Planetarium in Killeen, TX and I wish to thank Chuck Rau and the WAC affiliates for extending the invitation to SEPA. To review the business meeting's details, as well as other old and new business proceedings, read the minutes taken by Mickey Jo Sorrell posted in this issue, along with her Treasury's report.

Kris reported that over \$800.00 was raised in our conference silent auction! Again, these revenues directly support our Scholarship fund, so thank you to those who purchased items from the auction. Finally, during the conference banquet, two award plaques were given: one to our conference host the Sudekum Planetarium, and the other to our Pastpresident Adam Thanz. On behalf of the SEPA membership, thank you Adam for serving as 2007 - '08 SEPA President. And a big thanks to Drew Gilmore for maintaining both this year's conference web site and his continued work on keeping up SEPA's web site.

There's been a noticeable increase in submissions to the News from SEPA States section in the past couple Southern Skies journal. Please continue sharing updates on what's happening at your planetarium.

Since moving to Louisiana, I've been waiting for an opportunity to finally make the trip over to Cocoa Beach to see a shuttle launch. In late April I decided the opportunity had come and I needed to see the STS-125 launch on 11 May. This mission, of course, was to the Hubble Space Telescope for its final refurbishing. For those of you who have witnessed a shuttle or rocket launch you know just how incredible and inspiring the moment of launch really is. The experience is similar, but not quite as revered, as witnessing a total solar eclipse. Both experiences, however, are addictive and I'm already planning on seeing one of the remaining shuttle launches.

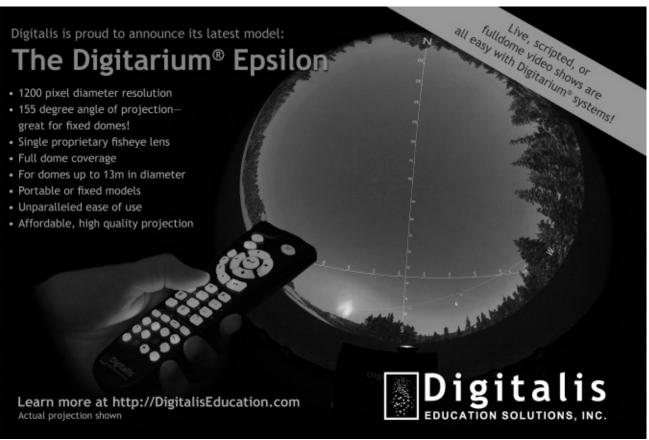
Remember your State Coordinator!

ALABAMA: Mitzi Adams, mitzi.adams@nasa.gov GEORGIA: David Dundee, DavidD@tellusmuseum.org KENTUCKY: Rachel Connolly, rachel.connolly@louisville.edu FLORIDA: George Fleenor, Jetson1959@aol.com LOUISIANA: Jon Elvert, jelvert@lasm.org MISSISSIPPI: James Hill, jhill@rainwaterobservatory.org NORTH CAROLINA: Patsy Wilson, wilsonpk@rss.k12.nc.us PUERTO RICO: James Sullivan, jsulliva@broward.edu SOUTH CAROLINA: Gary Senn, SennG@sc.edu TENNESSEE: Kris McCall, krismccall@adventuresci.com VIRGIN ISLANDS: James Sullivan, jsulliva@broward.edu VIRGINIA: Kelly Herbst, Kelly.Herbst@thevlm.org WEST VIRGINIA: Andrea Anderson, aanderso@access.k12.wv.us

Small Talk (Continued from page 7)

entertaining and a great lover of astronomy and the unmotivated to work on their own, and felt they planetarium field and just an overall terrific person. should be paid to do what they called "astronomers' My sympathies to John and her extensive family. dirty work." My concern is that when introducing Feel free to share with me any thoughts you might students to astronomy, they can get very turned off have about Sue here in the column. Sue taught me, to it by forcing them to do on-line citizen science never to get off the ship on an eclipse cruise. projects. I seem to get more students turned on by going to star parties and looking through telescopes Finally, I would be amiss if I didn't put in writing and visiting the planetarium. That seems to have my apologies to Cristi Whitworth. She did a tremenmore of a "wow factor" and a turn-on factor. They dous job with a cool project that the Pisgah Astroseem puzzled why anyone would want to wade nomical Research Institute (PARI) near Rosman, through piles of data to make discoveries that way. NC of getting people to classify spectra from an I am not against "citizen science" projects like the archive of glass plates from their Astronomical one at PARI, in fact, I hope to use it with my stu-Plate Data Archive a la Annie Jump Cannon. This is dents. I am just having a hard sell with it to my high another of the new trend to citizen science similar school astronomy students. How do I get the point to galaxy zoo, SETI at home, classifying dust paracross that these projects are great, without turning ticles from Stardust and many more that I am sure off my students to astronomy?

you can name. I had a comment that after working the past year on the pulsar project with high school Your comments on any matters discussed here are students, I would have trouble having students get always welcome, however, you are also welcome involved with the pulsar project. Even though I to submit information about any other matter you would require students in my astronomy to do work feel might be of importance to people in small on the pulsar project, my concern was that it took planetaria. If you don't share your thoughts, then, up way too much class time and it took time away I am just talking to myself, so please share your from other topics in astronomy. Students were very thoughts!



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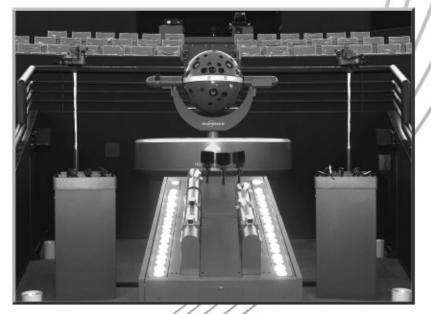
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News From **SEPA** States

FLORIDA contact: George Fleenor GeoGraphics Imaging and Consulting, Bradenton, FL Jetson1959@aol.com



Florida Planetarium Association (FLORPLAN)

Contact George Fleenor for details.

Bishop Planetarium South Florida Museum **Bradenton**, FL

George Fleenor reports: The Bishop Planetarium is a multipurpose, "state of the art" domed theater, **Buehler Planetarium** boasting one of the most advanced all-digital pro-**Broward College** jection systems in the world. Incorporating unidirec-Davie, FL tional stadium style seating, high definition DVD, TV, and PowerPoint projection, and a digital 25,000 Susan J. Barnett reports: The Buehler Planetarium watt Dolby 5.1 surround sound system, the Bishop is & Observatory is running public shows four days capable of accommodating a wide range of programs. a week. The weekend shows and monthly specials The planetarium is a remarkable astronomy educainclude In My Backyard, The Endless Horizon, tion resource, allowing visitors to explore their uni-Footsteps, Explorers of Mauna Kea and Skywatchverse through traditional live star talks and immersive ers of Ancient Mexica. virtual journeys to the far reaches of the cosmos.

We continue to rotate shows on Wednesdays, and Current shows include: Extreme Planets, The Ultithese shows include The People, The Dawn of Astronmate Universe, Secret of the Cardboard Rocket, omy, Astrology: Fact or Fiction, 2061: Secrets of Two Small Pieces of Glass, a Live Star Talk and Mars, To Worlds Unknown and A Dozen Universes. Rock Hall of Fame.

The Buehler Observatory has viewing four times a The planetarium dome is also used for an "Ameriweek. It has free public observing Wednesday, Friday, can Music" film series. and Saturday evenings. In addition, we observe the Sun on Wednesday afternoons. We usually have one

July 9 - Elvis: That's the Way It Is (1970), showcase artist: Eddy Rivers July 16 - Les Paul: Chasing Sound (2007); showcase artist: Preston Whaley, Jr. July 23 - Pete Seeger: The Power of Song (2007); showcase artist: James Gromko July 30 - Standing in the Shadows of Motown (2002); showcase artist: Tbone Rhodes August 6 - Leonard Cohen: I'm Your Man (2005); showcase artist: Dennis Brock August 13 - Joni Mitchell: Woman of Heart and *Mind* (2003); showcase artist: Mindy Simmons August 20 - Don't Look Back (Bob Dylan 1967); showcase artist: Ishmael Katz August 27 - Mayor of the Sunset Strip (2003); showcase artist: Electric Myakka

The museum is also getting ready to celebrate Snooty the manatee's 61st birthday with a Bash and Wildlife Awareness Festival. This annual event will celebrate Snooty's 61th birthday and promote wildlife awareness. The event held in the Spanish Plaza on July 18th and is free from 10 am to 2 pm for all Snooty's friends and fans.

The celebration will feature children's games and art activities; free cookies and juice for the children, a display of Snooty's birthday cards submitted for the card contest plus much, much more!!!

(*Continued on page 18*)

News from SEPA States (Continued from page 17) telescope set up to view sunspots, and watch flares through a Hydrogen-Alpha filter on another.

Astronaut Memorial Planetarium and Observatory **Brevard Community College** Cocoa, FL

Mark Howard reports: On Saturday June 13th, the Astronaut Memorial Planetarium and Observatory hosted a lecture by Brian Day, Education Outreach Specialist for the LCROSS mission. In July, we will be running our seasonal holiday favorite Star-Spangled Spectacular laser show along with The Doors and Pink Floyd - The Wall. Loch Ness Productions' The Cowboy Astronomer is showing Wednesdays at 2pm. SEPA's collaborative show The Planets and our original production Amazing Universe run on Fridays and Saturdays at 7pm.

Find us on Facebook! The BCC planetarium now maintains a Facebook page. If you have an account, visit our website and click on the Facebook to become a fan.

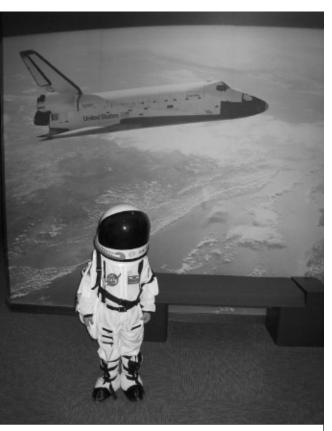
Planetarium **Calusa Nature Center** Fort Myers, FL

Carole Holmburg reports: Life at the facility keeps on going. I liked the two pictures attached, of Grace Perkins (Carrie Nameth, photographer), because sometimes it's those enthusiastic kids that remind us how important the Nature Center is.

Meet Grace Perkins, (age 4) who aspires to be an



Grace Perkins, aspiring astronaut



Grace Perkins, aspiring astronaut

astronaut someday. She came all dressed up to the Planetarium to see the shows. She was adorable!



Planetarium **Fernbank Science Center** Atlanta, GA

April Whitt reports: Astronaut Shane Kimbrough visited Fernbank Thursday evening, June 25th, describing his shuttle flight activities. Two weeks of Lockheed Summer Camp finished with campers competing to design and fly model aircraft.

Two planetarium programs ran during the summer: "More Than Meets the Eye" from Loch Ness adapted for the general public, and the in-house production of "Adventures in Starland" for the family

show. "New Horizons: Bridge to the Future" continues to be offered with our "Sky Tonight" program on Saturday mornings.

The 40th anniversary of the Apollo 11 moon landing was celebrated with "To the Moon and Beyond," from USC - Aiken's Ruth Patrick planetarium. "Two Small Pieces of Glass" runs as the fall program for the general public. Thanks to Jim Craig and Dave Hostetter for production help!

Star Lab traveled to branches of the DeKalb County library system, and the observatory was busy with visitors (looking for Mars as big as the full moon?).

International Year of Astronomy activities continued, with the opening of the "Earth from Space" exhibit at the central branch of Atlanta's public library, one of our IYA partners.

Becky Lowder reports: I'd like to share some of the renovations in our planetarium that have taken New programs for school groups, aligned with Georgia science standards, are in production and place over the last 2 years: a newly cleaned/painted will be offered during the 2009-2010 school year. dome and new seating, all done in-house.

Planetarium **Tellus NW GA Science Museum** Cartersville, GA

David Dundee reports: Well the hot news from our planetarium is that we've been open about 5 months and we have had over 60,000 visitors so far. We have been playing "Oasis in Space" and "Black Holes," plus running two live tours of the sky a day, and also "Wilbear." We run 63 shows a week just to keep up with demand. It's been great. The summer has already started to be busy with two or three sell outs per day on average.

Our observatory opened this past spring with a brand new 20" Planewave telescope. We have already been putting some of the images taken through the telescope into the planetarium. We had over 1,000 big observing events, by bringing their telescopes.

people turn out for astronomy day, even though During December '08 - Jan '09, our physics staff and the weather was not the best until night fall. The student volunteers came together again for the seating renovations. All the old original "gold harvest" Atlanta Astronomy Club and the Northwest Georgia Astronomy Association have helped us with three hard fiberglass bucket chairs with baskets underneath for books were taken out along with the old carpet, and brand new reclining padded bench seat-July 11 we open a special temporary exhibition of ing was put in. Our electronic engineer in the physics

- model trains at Tellus. This will be a 120 feet of track through a highly detailed layout of city, rural and seaside scenery. This will be at Tellus through the first week of January.
- We are planning to have special events July 18 20 in honor of the anniversary of the Moon landing. We will be playing "Dawn of the Space Age" and have special demonstrations in the exhibit hall with our Apollo models.
- In August "A night at the Museum" will happen on the night of the 8th with a number of historical figures will come to life in the museum, including Galileo conducting tours in the planetarium.

Georgia Southern Planetarium

- **Georgia Southern University**
- Statesboro, GA

Our dome was cleaned and painted by physics staff and student volunteers in the summer of 2007, looks so much better! This was the first time this had been done since it was installed in the early 70's, so it REALLY needed it.



Painting the dome

(Continued on page 20)

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News from SEPA States (Continued from page 19)



department, Mr. Robbie Deal, is the genius inventor, designer, and builder of this new and comfortable seating. Our visitors and students finally have a place to rest their heads during a star show, and the seats recline at the push of a lever on our console!

After everything was taken out of the planetarium, we had to go around with a hammer to knock out the hundreds of old chair bolts coming up out of the bare concrete flooring. All the old wiring was pulled out of the floor and new wiring installed to control the motors for reclining. Long pieces of metal were cut and welded to form the frames of the seating. All had to be painted with primer and were then installed with the motors in the planetarium along with new carpeting. Next all the plywood was cut, painted and installed. Another brilliant idea Robbie had was to enclose the bases with folding down doors and use the interior for storage. This also safely enclosed the motors, but we didn't think about little feet kicking and making a bit of noise at first during each show. Asking the kids to sit with their legs criss-crossed on the seats solved that problem.



Almost done!

We sewed and stapled/screwed vinyl material to fit the bottoms and backs of each row of seats with fire retardant foam cushioning inside. Touch up painting where the metal frame was showing and voila, brand new comfortable and affordable seating for the planetarium! Without Robbie, all the wonderful staff, and students volunteering many long hours into the night this never would have been possible and we can't thank them enough! Now ALL the seats in the planetarium are great seats for seeing the stars!

Rollins Planetarium Young Harris College Young Harris, GA

Steve Morgan reports: The Rollins Planetarium celebrates its 30th year of operation in 2009. The International Year of Astronomy will be coming to Young Harris this fall as we begin running the fulldome version of "Two Small Pieces of Glass" as our Friday evening public show. A free public observing session at the YHC Observatory will follow each showing, weather permitting.

The big news from Rollins is that we were recently selected to host the 2011 SEPA conference here in Young Harris! Proposed dates are Tuesday June 21 - Saturday June 25, 2011. Young Harris is nestled in the midst of the north Georgia mountains, just a few miles from Brasstown Bald, the tallest peak in the state with an elevation of 4,784 feet. The conference hotel will be the Brasstown Valley Resort <www.brasstownvalley.com>, a spectacular mountain lodge resort located just a mile or so from our campus.

We will also make some of our college dorm rooms available as a low cost lodging option for the more budget-conscious SEPA members.

FYI, Young Harris College is a private, liberal arts college with a current enrollment of about 700 students. Traditionally a two-year school, YHC became a four-year college in 2008, and enrollment is expected to nearly double in the next few years. The Rollins Planetarium presents public and school programs under a 40 foot dome with a seating capacity of 109. One of our claims to fame is that in 2002, we became the site of the world's first installation of the GOTO CHRONOS star projector. In 2008, we added a Sky-Skan Definiti DLP tory Museum & Planetarium opened the IPS pro-6-PLUS fulldome digital system, giving us the "best gram Two Small Pieces of Glass in its traditional of both worlds" in terms of projection technology. format on June 6. It will run through the end of August, to be followed by our live program, Our Mark your calendars now to join us in the beautiful Star, the Sun. Planning is beginning for an updated north Georgia mountains for SEPA 2011! version of Moons of the Solar System in the fall. In addition to Two Small Pieces of Glass on the weekends, there are presentations of The Sky Tonight LOUISIANA daily except Mondays and a live program entitled Space Flight for Kids on Tuesday mornings, as well contact: Jon Elvert as morning presentations for day cares, summer Pennington Planetarium schools, rec centers, and other youth groups.



Irene W. Pennington Planetarium La. Art & Science Museum **Baton Rouge, LA**

Jon Elvert reports: We had a few days of so called down time between the end of the school year and the beginning of summer camps and the start up of new shows. Our annual astronomy camp exceeded our attendance expectations. We've been fortunate to have had really strong support from schools this past year, giving us our second best annual attendance since opening in 2003. We hope to continue seeing these numbers climb beginning in the fall.

We opened our summer public show, Probing the Heavens with Galileo, and a new visual music show Voices in the Dark. Both shows are North American premiers and we're hoping our summer tourist enjoy them. We offered another Mississippi Star Party on the Levee, but inclement weather prevented us from observing. Our portable e-Planetarium set a new record for attendance this past year and its summer schedule promises to remain busy. It's still the International Year of Astronomy and we continue to remind our visitors during every show to get involved in astronomy events throughout the remaining year.

Lafayette Planetarium Lafayette Natural History Museum Lafayette, LA

Dave Hostetter reports: The Lafayette Natural His-

Planetarium staff will also assist Education Curator Dawn Edelen with a week-long space themed Cosmic Camp during July.

IYA summer activities include weekly lunchtime solar viewing from the sidewalk beside the Museum on Wednesdays and sidewalk solar astronomy during downtown Art Walks on the evenings of the second Saturday of each month.

Since Lafayette's next school year begins as early as August 11, plans are being made for our regular school shows as well as for the introduction of French language programming during the school year.

Sawyer SPACE DOME Planetarium Sci-Port: LOUISIANA'S Science Center Shreveport, LA

Greg Andrews reports: There is much to do with the coming of summer. IYA2009 continues to provide golden opportunities to promote astronomy. We received Two Small Pieces of Small Glass and added it to our repertoire of Space Dome Programs. We've developed several astronomy programs for school groups. Recently, we sponsored "Sun Cookie Sundays" during the month of June. Every Sunday in June, we spent an hour on the Windham Family Rooftop Terrace making models of the sun using cookies. We complimented the program with solar observing using an H-alpha telescope. The temperature reached 90°F or more, and there were hardly any clouds in the sky when we hosted the program. We did provide water and we set up a pavilion for shade, but if you've ever experienced a full summer in the South, you'll know the shade isn't as helpful as you'd like it to be. Despite these conditions, the

(Continued on page 22)

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News from SEPA States (Continued from page 21) influx of visitors was astounding! Our young visitors were interested in the cookies and our older visitors were intrigued by the solar viewing. Hopefully this leads to more rooftop activities.

July marks one of our biggest months for celebrating IYA2009. We will be celebrating the 40th Anniversary of the Moon Landing on July 20th. We will host Solar System Saturdays with Dr. Laura Whitlock, a resident Astrophysicist at one of our local colleges. Our Summer Space Series consists of several programs throughout the month of July. July 4th translates to carpe diem - the festivities offer a chance for Sidewalk Astronomy activities and solar observing. Truly, 2009 is an exciting year and we look forward to building on the momentum gained from this year



Rainwater Observatory & Planetarium French Camp, MS

James Hill reports: We are planning to have live internet images from the .65m Ritchey research telescope available on line in the fall. DVD images of requested objects will be available on request.

Rainwater Observatory & Planetarium was one of 20 planetariums to receive a grant of 100 IYA Galilean telescopes from the ASP. We will be having a NASA Space Grant funded educator workshop November 6-7. All participants in this 10 hour event will go home with one of these telescopes to use in the classroom.

The dates for the 2010 Mid-South Star Gaze and Astronomy conference to be held at Rainwater Observatory & Planetarium will be April 12-15, 2010.



Helen at the Sangre Telescope



Carolina Association of Planetarium Educators (CAPE)

Curt Spivey reports: The Catawba Science Center in Hickory, NC is hosted this year's CAPE Conference, with generous sponsorship from KMP/AVI. The Conference was held on Monday, June 29th and Tuesday, June 30th with a total of 16 participants, including 2 vendors. Participants were from North Carolina and South Carolina, from developed and functioning planetariums and astronomy facilities to those in planning and development stages.

Featured speakers included: the PARI Institute talking about the SCOPE Program, Darlene Smalley and Gary Senn of USC-Aiken discussing "Glean-

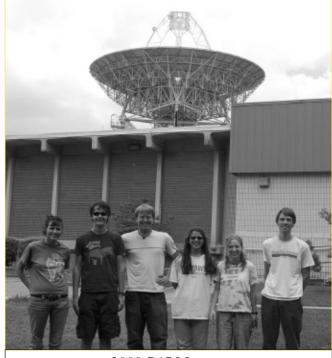
ings From Galileo's Notebook," Curt Spivey of CSC sharing the history of constellations, and a demonstration of the Millholland Planetarium Konica Minolta MediaGlobe II system. On Monday night the group traveled to the Lucille Miller Observatory for stargazing with the Catawba Valley Astronomy Club. They were treated to a rare clear, summer night with optimal viewing conditions.

PARI StarLab **Pisgah Astronomical Research Institute** Rosman. NC

Christi Whitworth reports: Pisgah Astronomical Research Institute (PARI) has a full schedule planned for the summer and early fall. Education Director Christi Whitworth presented SCOPE (Stellar Classification Online - Public Exploration) in a workshop at SEPA, in Nashville mid-June. Christi 2009 PARI Interns and Astronomer/Educator Bob Hayward presented SCOPE to CAPE in Hickory, North Carolina at the tunities coming up in 2009 include the PARI end of June. PARI invites all SEPA members to Star Party (September 18-20), a Radio Jove Workjoin in the citizen science effort to classify stars at shop (October 9-11), and a School of Galactic http://scope.pari.edu. SCOPE allows users to clas-Radio Astronomy Workshop, a.k.a. Smiley Worksify spectral data from the Astronomical Photoshop (November 14). For more information on any graphic Data Archive for future use by scientists programs mentioned, go to www.pari.edu <http:// when needed. www.pari.edu> or email cwhitworth@pari.edu.

Burroughs-Wellcome Fund renewed funding for Margaret C. Woodson Planetarium Space Science Lab which will lead over thirty West-Horizons Unlimited, Rowan-Salisbury Schools ern North Carolina high school students in a study Salisbury, NC of the moon over the next year. The first half of this group has completed building their optical tele-Patsy Wilson reports: Summer day camp groups are scopes and is beginning their observations. The being scheduled to view a combination program second group arrives at on July 27. In the meanthat showcases the AVI SkyLase system and the time, thirty high school age students from around current night sky, "Lasers and Stars." In addition to groups of children, we are also hosting the local the world will be at PARI for "Above and Beyond: Duke TIP Field Study in Astronomy, Astrophysics, Rotary Club's breakfast meeting and doing a speand Astrobiology." To help support so many student cial presentation for a local church's Vacation Bible endeavors and PARI'S research efforts, five under-School. graduate interns (see photo) will be assisting during the summer along with the CISCO/PARI Kenan The regular 3rd Saturday planetarium shows will Fellow Derek Dennis and Science Educator Matt resume in August as school begins again with a different program scheduled each month. The shows Kinnaird. will alternate between traditional planetarium pre-On the public front, our popular Evening at PARI sentations and featured laser shows.

sessions will feature an Evening Light Photography Workshop in July and Near Earth Objects in "Astronomy's Awesome" camp for rising 3rd, 4th, August. Evening at PARI is held on the second and 5th grade students is set to kick off on July 20th. Participants will be doing hands-on astronomy Friday of each month. Other public outreach oppor-



News from SEPA States (Continued from page 23) activities from the Astronomy From the Ground Up Workshop sponsored by the Astronomy Society of the Pacific. Of course, the first day, we will be commemorating the 40th anniversary of Apollo 11 and the Neil Armstrong's first footsteps on the Moon. Throughout the Spring we did "Planetarium Potpourri" for numerous special groups. This hourlong show incorporated a 20 minute live sky, 20 minute laser segment and "Two Small Pieces of Glass."

In August, Patsy will travel to Huntsville, Alabama with 25 students from the local school system for a week of Space Camp. This trip is taken every 2 years and is always anticipated by local families.



The Editor thanks Glenn Dantzler for his valued contributions as State Coordinator, and welcomes Garv Senn in that role.

DuPont Planetarium Ruth Patrick Science Ed. Ctr., USC Aiken, SC

Gary Senn reports: The DuPont Planetarium at the Ruth Patrick Science Education Center (RPSEC) on the campus of the University of South Carolina Aiken released its first planetarium production for distribution to other planetariums called, To the Moon and Beyond. Please check our webpage, http://rpsec.usca.edu/planetarium/ MoonBeyondShowKit.html for more information. The show featured our fantastic scriptwriter, Darlene Smalley and some local media talent for voices. A local television news celebrity from WJBF TV in Augusta, GA, Mary Morrison, was the narrator for the show. A local radio celebrity from WKSX, Tony Baughman, read the parts of two of the main characters. The characters of a mother and daughter were read by mother/daughter team, Laura and Moriah Melvin.

The planetarium partnered with the Astronomy Club of Augusta to sponsor Earth and Sky Night on National Astronomy Day, which was on May 2. Unfortunately, it was a bit cloudy and there was a little rain during the event. In spite of this, there was some opportunity for patrons to get glimpses of the Moon and Saturn. Members of the club set up telescopes on the lawn in front of our facility and we had the Bechtel Telescope housed in the RPSEC Observatory open. In addition to the telescope viewing, we also provided a number of hands-on activities about the Earth and sky.

A new initiative for us concluded on National Astronomy Day with the announcement of winners of our youth art competition. We received 216 entries reflecting an astronomy theme with overall dimensions not exceeding 15"X18"X4". Student prizes included ribbons for 1st, 2nd, 3rd place and honorable mention. Artists from the university art department and the community judged the competition. The winners were invited back On June 16 for a free planetarium show and ice cream party. The ice cream came first, and the students were escorted to the show after consumption and cleanup. In addition, the teacher with the most student entries earned a gift certificate to the Science Store.

On the same evening, we debuted our presentation of Two Small Pieces of Glass (TSPOG). We presented content from the DVD, which has garnered much discussion from the planetarium community. We augmented the show with slides and Digistar sequences. Some of the sections that looked somewhat awkward through our single video projector system were replaced with other visuals. The show was well received, and we plan to present it again this fall. A few hands-on activities were included as part of the presentation to allow the patrons to explore phases of the Moon, phases of Venus and the Galilean moons. We plan to update the show using some other Digistar sequences made available to the Digistar Users Group (DUG) by the fine folks at the Faulkner Planetarium in Twin Falls, Idaho.

On a related note, Darlene Smalley and Gary Senn presented Gleaning Insights from Galileo's Notebook at the annual Carolina Association of Planetarium Educators (CAPE) held at the Millholland

Planetarium at the Catawba Science Center in Hickweeks of anticipation to the 2009 conference in Nashville, TN. Kris McCall, Drew Gilmore, and ory, NC. The presentation included information about the hands-on activities used during the pre-Theo Wellington of the Sudekum Planetarium, and the rest of the staff of the Adventure Science Center sentation of TSPOG. The staff at the Catawba Science Center were wonderful hosts of the CAPE are busily getting ready for their big event. I know conference. We encourage other planetarians from this is not about Bays Mountain, but they are our the Carolinas to attend the next CAPE conference planetarium neighbors and we know they are going to do a great job. I can't wait to see them and all of that will be held on August 2 and 3, 2010 at the OmniSphere at the Natural Science Center in our colleagues in this rarified career. At the event, Greensboro, NC. CAPE is a wonderful organization we will be showing 10 minutes worth of our prethat provides Carolina planetarians the opportunity mier full-dome program called "Connections." Proto share and network. duced totally in-house, we are proud to present this production to you.

Our big news in June was that the RPSEC acted as a nice, large lightning rod during a severe thun-We at Bays Mountain are also getting ready, but for derstorm. The storm damaged all of the network the 2010 conference. It is set for June 8-12, 2010. routers in the building. None of our essential plan-We will be your host and already have an exciting etarium equipment was connected to the network, agenda set. I have been keeping mum about the but the lightning found its way to the planetarium details as I didn't want to detract from the glory of equipment anyway. Five slide projectors, the autothe Nashville bash. But, all will be revealed at the mation computer, a portion of the cove lighting Business Meeting at the 2009 conference. By the system and six assorted controller boxes were damtime you read this, the details should be posted on aged during the storm. It took some time and our website. We are very excited about the schedule expense to get the planetarium back into normal of events. The theme is "The Art of Storytelling" operating condition, but we were able to resume and you don't want to miss it. That's all I'll say at shows fairly quickly without too much inconvethis time. nience for our patrons.

Since we reopened in early March, we have had about 20,000 visitors to our theater. That's in three In June, the planetarium presented In My Backyard from the Calgary Science Centre and Digistar months! Our annual visitation used to be about "Laser" Fantasy, which is a local production. In 25,000. We have been averaging about five shows July, our local production now available for distrievery day. We know it will taper off, but it hasn't bution, To the Moon and Beyond, was shown to the yet. Since we have been so busy, we have hired public. In August, the planetarium will present Misa student intern. Her name is Heather Fries and sion to Mars and Digistar Virtual Journey, two local is majoring in science writing and minoring in productions. physics/astronomy. She is very excited about working in the theater and learning about the field. A benefit of her help is that it will free Jason & me to **TENNESSEE** do show production. We are currently working on a new full-dome program that will open next summer. contact: Kris McCall This August, we will start showing the IYA pro-Sudekum Planetarium gram "Two Small Pieces of Glass."



Bays Mountain Planetarium Kingsport, **TN**

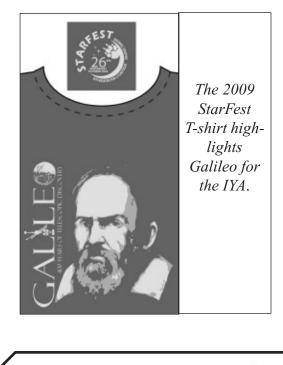
Adam Thanz reports: As I write this, it is just two

We are also getting ready for StarFest. It will be held October 24-25, 2009. It's a mix of a mini astronomy conference and star party. This will be our 26th annual event and is always lots of fun. Our main speaker is Dean Regas. He is the Outreach Astronomer for the Cincinnati Observatory Center and we are happy to have him visit us. We also

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News from SEPA States (Continued from page 25) have a great T-shirt planned designed by the Park's senior artist, Allen Davis. It features Galileo as part of our celebration of IYA. I recommend that you attend. Registrations should be sent out in August.



VIRGINIA

contact: Kelly Herbst Virginia Living Museum Newport News, VA Kelly.Herbst@thevlm.org

Abbitt Planetarium Virginia Living Museum Newport News

Kelly Herbst reports: Summer is here with all its usual craziness. The economic woes are taking their toll, with attendance down significantly from where we hoped it would be, but nonetheless we have many happy visitors enjoying the variety of programming we are offering this summer. Our first summer class runs next week, and features a great deal of explosives. Yep, John Wright is teaching 4th and 5th graders about rocket science. Devastation is almost guaranteed to ensue, and we're looking forward to it! Summer has also brought us John Moorman, a returning summer employee and fantastic idea man. He's been a great help, working on numerous problems that had been shelved for lack of time to deal with them. I'm waging the war to try to get his job extended beyond summer...wish me luck!

We'll close after Labor Day weekend to perform some much-needed physical maintenance...seat repairs, cleaning, and such-like, plus the now-mandatory computer maintenance (can you say back up? I knew you could!). October will bring us a new changing exhibit called Megalodon (Woo! Big dead sharks!) and a new slate of shows. *Kaluoka'hina*, with its sharks, moves to the preschool slot, while we are hoping to have *The Future Is Wild* from E&S Spitz as our featured program to partner with Megalodon. We'll also begin running *Two Small Pieces of Glass* in celebration of IYA 2009.

Before we get into Fall, however, we've got the 40th anniversary of Apollo 11 to celebrate! We'll be running a special slate of shows during Exploration Weekend, July 18-20, and NASA Langley will be coming out with lots of exciting stuff about their planned missions to the Moon and Mars. It should be a great time, as NASA did an amazing job for our grand opening in May. We're really looking forward to working with them again.

Any Virginia planetarian with news to share with SEPA should contact Kelly Herbst at kelly.herbst@thevlm.org or 757-595-1900 ext. 256

Thomas Jefferson HS Planetarium Richmond, VA

Leslie Bochenski reports: TJ Planetarium survived the School Board's budget axe, and closed out a successful year. I served over 1700 students throughout the 2008-09 school year, and performed 134 programs.

In May, ASH Enterprise's Eric Melenbrink installed a new receiver, LCD projector and laptop computer so the old place has finally gone digital. Anyone want a few Ektachrome projectors, trays, and a lot of slides?

Unfortunately, budget cuts did cancel all travel for the year, so I was not able to attend the SEPA conference. I'm going to ration my budget next year so I'll definitely be able to attend.

Have a great summer, everyone!



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