

# President's Message

The new year is finally upon us year that I look toward with great anticipation. I am honored that you are allowing me this opportunity to serve SEPA. It is with mixed feelings, however, that my first official act is to announce another death in the SEPA family. Word came to me early in January that Paul Campbell passed away on the 2nd. Paul was just 52, but as many of you are aware, he was in poor health in recent years. He had battled complications from juvenile diabetes for a long time. Although retired, he was well known from his former role as a professor and director at the Hardin Planetarium at Western Kentucky University. Paul's was a familiar face at almost every SEPA conference, and his future absence will seem strange. Many of us are thankful for having had a chance to spend time with him at the 1996 Nashville conference.

As a charter member of SEPA his influence was great in shaping our organization during its formative years. Yet over the years, his enthusiasm and service to us continued unabated... chairing committees, representing us at NSTA, being parliamentarian during business meetings, and holding the office of president. The way I will remember Paul, however, is in his self appointed role as ambassador of fellowship and friendship for SEPA. Since his death, many people have told me how Paul was the first contact they had at a conference. He would go out of his way to seek new faces and welcome them with his kindness. In the mid 70s, I was one of those awkward new people at this foreign meeting, having just moved from New York state. Paul was there, and he took the time to sit and chat with this quiet stranger. He even went out of his way to introduce me to several folks that I now consider friends and not just colleagues.

As I write this I'm listening to the one tangible item I have that connects me with Paul. Two years ago, he offered me an album performed by a good friend of his, Michael Card. How could Paul know that one day I would need some words for Southern Skies to commemorate his own life? Michael, was the minister at Paul's funeral service. How wonderful that the first

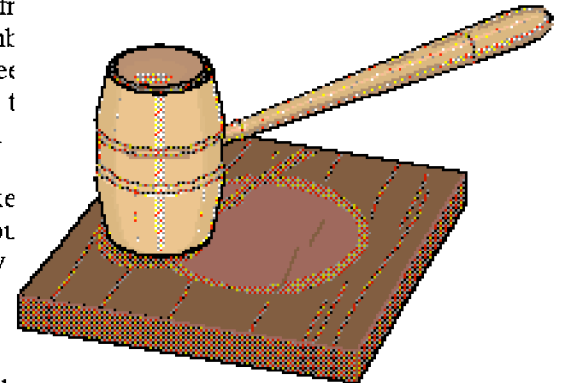
musical words from Paul's gift are "Life is a song we must sing with our days. No one sang life with more conviction, eloquence, and joy than Paul. He will be missed by us all. Our thoughts and sympathy go out to all his family and friends. Please share some of their feelings with you. Look for their comments later in this issue.

A death can make us stop and think about our own lives. How our life affects loved ones may be obvious. But what kind of impact do we make in our work places, the students we teach, or the public we reach? It makes one reflect on the importance of making each day count. Maybe through such sad times we can refocus and prioritize our own goals and aspirations. It never hurts to do some personal soul searching.

I hope that over the next two years I can bring about some positive changes in SEPA. Several of you have expressed ideas that would open us to better communication, provide new ways to share our talents, and offer us ways to experiment with untried projects. I appreciate this dialogue and hope that you will continue to voice your thoughts to me. Always feel comfortable contacting me about a problem or idea. All of us on Council want your input and feedback. Last year we made a good effort to get our membership guidelines sorted out. I have asked Kris McCall to take the lead in presenting to Council a benefits list. This is something Kris wanted to finish before her term ended and I think she deserves the chance to see her project through to completion. Expect some preliminary musings from us in the Spring issue of Southern Skies and some final plans by conference.

Last issue you had a chance to read Frank Palma's article on the Pensacola Junior College's Digistar planetarium. We'll have a chance to check it out for ourselves at our June 10-14 conference. Director Clint Hatchett and crew are working hard

Kristine K. McCall  
President  
Sudekum Planetarium  
Nashville, TN



on plans to give you a rewarding and fun time. Start making your plans to attend. June has a way of sneaking up too fast. Broad participation from the membership is what makes or breaks a conference. What can you share? Think about it. Do it!

Last, but certainly not least, I want to thank all of our officers for a great job over the last year. Richard McColman gets a deserved rest as he retires as past president and Kris McCall takes on that title. (Kris, you can't know how glad I am to still have your help, even if I have to call you Madam Past Prez). Duncan (Send me your dues now!) Teague always does an outstanding job with our journal. No other

region's newsletter looks better. John Hare continues to be our best informed representative in IPS matters. Gosh, sounds like we've got a great team! No, I haven't forgotten about our rookie, George Fleenor, president elect. I gave George his first job in the planetarium field, what seems, a very long time ago. Well... , I must come up with some tough assignment to break this guy in right. See y'all next issue.

Expressions of sympathy and remembrance can be made to the Paul B. Campbell Scholarship Fund, College Heights Foundation, Western Kentucky University, One Big Red Way, Bowling Green, KY 42101.

---

## IPS Report

---

The IPS election results are in. The make up of the IPS officers beginning 1 January is as follows:

President ..... Thomas Kraupe  
President Elect.....Dale Smith  
Past President..... Jim Manning  
Secretary ..... Lee Ann Hennig  
Treasurer..... Shawn Laatsch

Three By Laws changes were also passed by the necessary two thirds majority of votes cast. This eliminates Article III. 1. B (Honorary Membership) and cleans up a couple of wording conflicts in Articles VIII. 1 (Committees) and VIII.4 (Publications Committee).

As I reported after the IPS meeting this past summer in Osaka, Montreal was selected as the site for the 2000 conference. Keep in mind that IPS will accept bid proposals for the site of the 2002 conference at the next meeting of the IPS Council in June of 1997. If your facility is interested, I can furnish you with a copy of the protocol for submitting an invitation.

The next IPS Conference is scheduled for 1998 in London, England. The conference will run from 29 June to 2 July with the council meeting scheduled for 28 June. A optional post conference tour will run 3-7 July. Tentative conference plans include visits to Greenwich and the Old Royal Observatory and the Stonehenge and Avebury megalithic sites. The post conference

tour will include visits to Jodrell Bank, Belfast and the Armagh Planetarium, Dublin, Newgrange or Castletown House, and the Rosse Telescope at Birr. London Planetarium Director, Undine Concannon has requested that anyone interested in attending should let her know ASAP so she can plan around an expected number. You can contact Undine at:

Undine Concannon, Director  
London Planetarium  
Marlybone Road  
London NW1 5LR, England  
phone (44) 171 487 0227

Finally, the next IPS council meeting is scheduled for Strasbourg, France on 23 June. Please let me know, no later than at our conference in Pensacola, of any matter(s) you would like me to present at the Council Meeting.

THE DEADLINE FOR THE NEXT ISSUE OF SOUTHERN SKIES IS APRIL 1. SEND YOUR SUBMISSIONS ON A 3.5 DISKETTE OR VIA EMAIL ATTACHED FILE TO STARMANTNG@AOL.COM OR TO STARMAN@NETTEN.NET

# Feel the Pressure on Your

That s me twisting. I need some more articles from those of you who feel the urge to see your name and your work in mass distribution. The coordinators who send in the information on planetarium activities within their states and the associate editors help so much in sending your editor the information that appears before you. I still need help from individuals to write articles on technical and educational subjects.

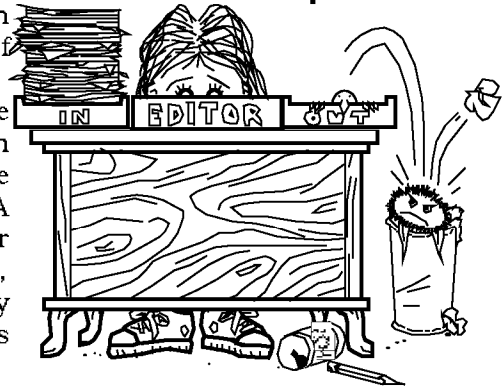
Dennis Cowles and Jalie Phifer s very scholarly works on meteorites, planetary atmospheres, and constellation mythology filled many pages in our 1996 issues. How many of us acquired a warp speed effect after reading about it in Southern Skies and then seeing it demonstrated at the 1995 Charlotte conference? There are other valuable thoughts our members can share with each other. Whip out that pen and paper, or turn on your word processor, and get those words of wisdom to your editor. And please, send it to me on disk instead of giving good ol AOL more to do.

On page 18 of this issue, you ll find some information on obtaining the slides the Space Telescope Science Institute makes available for us to distribute to our members. This will be handled by DTPublishing so you will not have to pay sales tax on items sent out of Tennessee.

Please note the address to which memorials may be sent to honor SEPA founding member Dr. Paul Campbell, who passed away on January 2. This address is in President Mike Chesman s president s message on page 2

Finally, when you send in your articles, please don t put quotation marks around anything except direct quotations. It will save me a lot of time. Next deadline is the Hale Bopp perihelion date.

Duncan R. Teague  
Secretary/Treasurer  
Southern Skies Editor  
Craigmont Planetarium  
Memphis, TN



Mike Cutrera

Send your \$15.00 check made payable to SEPA to the following address:  
Craigmont Planetarium, 3333 Covington Pike, Memphis, TN 38128 3902

Name		
Planetarium		
Organization		
Address		
City		
State	Zip	
Area	Voice	
Area	Fax	
Position		

# Settlemyre Planetarium Rock Hill, South Carolina

Dave Hostetter  
Featured Planetarium Ed.  
Lafayette Natural History  
Museum & Planetarium  
Lafayette, LA

In the planetarium business stars twinkle day or night, rain or shine. The Museum of York County's Settlemyre Planetarium in Rock Hill, South Carolina, will celebrate its 20th anniversary in 1997. Rock Hill is a city of about 49,000 located

or Greenville, SC, or Winston Salem, NC travel to Rock Hill for a whole day of educational activities. We work closely with the Educational Department of the Museum.

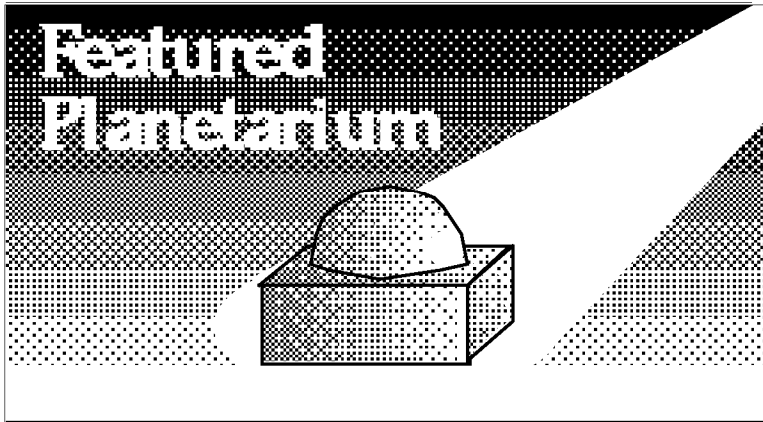
All fifth grade students in the Rock Hill and two surrounding school districts visit the Museum. They have an in depth animal adaptations instructional guided tour of the Museum's vast African Animals collection, followed by a choice of three Planetarium programs: The Grand Tour, Beyond the Solar System, or Skywatch. Our goal is to offer third graders an introduction to the Solar System featuring comparative planetology in a curriculum based program.

Pre school students see Planetarium Rock. First and second grade teachers can choose another live program, The Solar System, which introduces students to the planetarium, the Cardboard Rocket, or an original program I wrote called The Adventures of Comet MYCO (Museum of York County). Sixth grade and older groups can select a program on cosmology, The Incredible Universe, and customized mythology/observational programming. For Senior Citizens or special needs groups we have a program called Skylights and Mozart. I wrote an article for Southern Skies about the Mozart program. In the summer we offer Space Camp for 5th graders, and for several years we have been involved with Winthrop University in providing much of the curriculum for the Winthrop Junior Scholars program for rising 9th graders.

We are fully automating our weekend programming and now offer Joe Hopkins Welcome To The Universe, our live Carolina Skies program, and Space Bus. The Christmas Star has most recently been converted to our Universal Theatre Control Systems from ECCS.

Carolina Skygazers, the local astronomy club affiliated with the Museum and Planetarium, offers well supported outreach star parties and helps with astronomical events for the public. An annual Gathering At The Equinox is held each March and has become well known to amateur astronomers in the Southeastern U.S.

I cannot imagine working in a more



Mike Cutrera

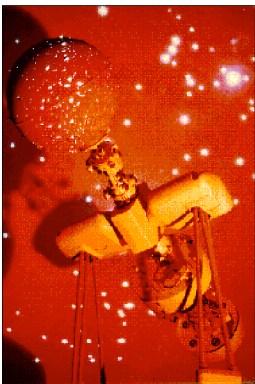
Barbara Reynolds  
Author  
Settlemyre Planetarium  
Museum of York County  
4621 Mt. Gallant Road  
Rock Hill, SC 29732

30 miles south of Charlotte, N.C. Annual visitation is about 34% above the national average based on population.

A Spitz 512 projects over 2,300 stars on the 30 foot dome, and 64 seats accommodate about one large bus load.

The first star show Cycles of the Universe premiered November 2, 1977. Reservations for 4,000 people were booked before the Planetarium and Environmental Theatre opened its doors for dedication ceremonies. In the first two months of operation, 5,200 participants viewed its starry skies, and the planetarium continues to be a major attraction at the Museum of York County.

A strong educational mission drives the staff. Glenn Dantzler is full time Director, and I work 28 hours a week. Weekend staff are Sam Belk, Van Abernethy, and Becky Thompson. Thousands of students, ages four to adult, visit during the school year, and teachers choose from a variety of programs. Most school programs are live presentations and often coordinate with each group and teacher. After school scout groups and some latchkey program coordinators utilize the planetarium as well as senior citizens groups. Frequently groups from as far away as Charleston



# Small Talk

As I write this, Christmas, the winter solstice, and the turn of the year are almost upon us. I don't know about you, but when this happens, I begin to be visited by many ghosts of Christmas and time gone past. I may be in the midst of doing things unrelated, and into my head memories will spill of people and places who are no longer in my life, like those trips with my grandfather when I was five to visit the Sloan, New York liquor store to stock up on the Christmas Spirits. Other memories include the annual Christmas display that was put up near the front doors of the Hastings Museum in Hastings, Nebraska when I directed the J. M. McDonald Planetarium located there. I was always amazed at the creative ideas that Burton Nelson would come up with. One year there was a collection of toys from different past years. Another year there was a reindeer with a red flashing nose like Rudolph.

In this spirit of remembrance, while at the SEPA Conference in Nashville, I touched base with many of you to collect interesting, memorable stories you had about people and things that happened around your dome. Many memories focused around volunteers, but not exclusively. Here then are some of your tales.

The first up comes to me from Jeff Guill at Gibbs Planetarium in Columbia, SC.

Six years ago in Macon, a high school volunteer one afternoon decided to try out his newest, coolest, CD on the Planetarium sound system. Before I walked in, he cranked it up full blast and played track 1, Shotgun blast... We were lucky that only 2 tweeters and one woofer were blown from this special effects CD. His tenure as a volunteer ended shortly after that.

Okay, so we all probably had a volunteer or two like the one Jeff described, but what about administrators? I feel like I've touched a live wire here...

Someone at Pensacola gave me this story, but neglected to give me their name. Could it be that names were omitted to protect the still employed? Anyway, here is the story.

A few days after a security system was installed at the Pensacola Junior College Science & Space Theatre. The staff, as usual, armed the system before leaving on Friday afternoon. Later the President of the College giving a VIP tour of the campus unlocked a side door of the planetarium and set off the alarm. This was followed by a very annoying siren and the arrival of the city police, as security codes had not been issued to the President.

Britt Rossie, at our 1998 SEPA conference site, the Hopkins Planetarium/Science Museum of Western Virginia, in Roanoke gave this story.

After participating in the 1994 Support Program for Instructional Competency in Astronomy (SPICA) done by the Harvard Smithsonian Center for Astrophysics with a grant from the National Science Foundation to train teachers to be astronomy resource instructors, I formed a planetarium youth summer program called Students Participating in Celestial Awareness, also SPICA. At the end of the program I took the students on a summer field trip to Nags Head, North Carolina. A fifteen year old, blonde female jumped at the first opportunity to swim with the dolphins. She attempted to swim out to them just as we were about to go out for a seafood buffet that evening. It was a sight not to see!

Do weird events just gravitate towards Roanoke or what? Here's another story from Gary Close at the Hopkins Planetarium.

In the early 80s when we were running contract laser shows, one of the shows had a thunderstorm sequence. To make it seem more realistic we asked our youth volunteers to gently spray the audience with water from squirt bottles. One of our more obnoxious volunteers got a little carried away. He was spraying people directly in the face from close range. One audience member got so tired of this that he stood up and punched the volunteer's lights out. (continued on page 22)

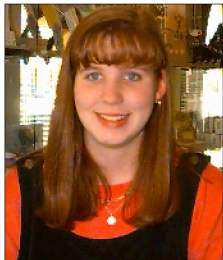
Elizabeth Wasiluk  
Small Talk Editor  
Berkeley County Planetarium





# Digital Cosmos: Views of the Solar System

Mike Cutrera  
Digital Cosmos/Graphics Ed.  
Bishop Planetarium  
Bradenton, FL



Nicole Hassold  
Junior Intern  
Craigmont Planetarium  
Memphis, TN

If you like detailed pictures of planets, Views of the Solar System is for you. This CD ROM from the National Science Teachers Association is loaded with information for the space enthusiast.

The opening screen is a spectacular view of all nine planets. From this point you can link to several different locations that provide you with tons of information on the planets, moons, comets, asteroids basically anything you could possibly want to know about our solar system.

This disk includes recent discoveries of fossils in a Martian meteorite and the current Mars missions Pathfinder and Global Surveyor. It discusses the first comet planet collision ever observed when Shoemaker Levy 9 hit Jupiter in 1994.

Besides including information on events in science history, Views also provides an extensive background on people who discovered solar system objects.

The disk is put together like a site on the World Wide Web, and graphics show lots of detail. I strongly recommend Views for anyone even remotely interested in our

solar system. It will keep you informed about everything that shares the universe with us.

Order Views of the Solar System from the National Science Teachers Association for \$21.95 by calling 800 722 NSTA.



The Views of the Solar System CD ROM homepage offers many links to detailed images, video clips, classroom activities, a glossary, histories and summaries of space missions, and biographies of space scientists.

## Life on Mars: The Video



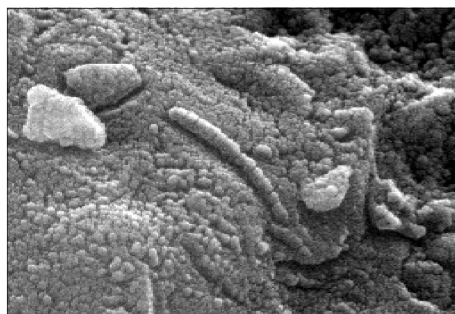
Elizabeth Shelly  
Senior Intern  
Craigmont Planetarium  
Memphis, TN

How can we say with absolute certainty that there isn't a different form of life existing on Mars a kind of life that we know nothing about? The answer? We can't, according to Dr. Fred Whipple in a 1954 issue of Colliers Magazine. His statement still holds true today. NASA is sending two more missions to explore Mars.

In 1984 evidence that life may once have existed on Mars was found in Antarctica in a chunk of rock about the size of a potato. This rock is believed to have come from the

surface of Mars, perhaps as part of an asteroid knocked off the planet as the result of an impact 16,000,000 years ago.

The rock entered Earth's atmosphere nearly 13,000 years ago and has lain, undiscovered, ever since. The video Life on Mars calls the find, one of the most important discoveries in the history of mankind. It conveys this excitement through upbeat music and fly by scenes of Mars's surface in an educational and entertaining 30 minute



(continued on page 7)

# Astro-Video Review

## Galileo: The Solar System

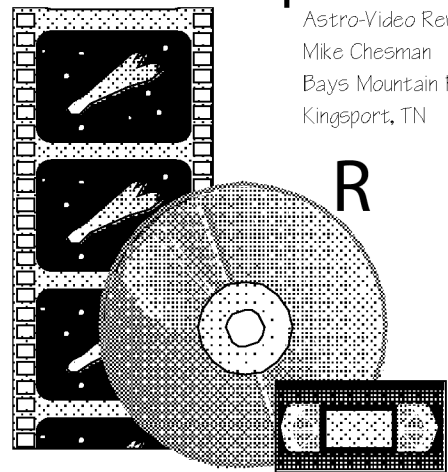
I know you're always searching for new sources of teaching materials, so let me recommend Instructional Video, P.O. Box 21, Maumee, Ohio 43537. These folks have an interesting catalog of classroom videos in all subject areas, many focusing on science. I was especially pleased at the number of titles I had never heard of before. The prices range from \$14 videos like the ones you get at discount stores to hundreds of dollars for special items licensed only for school use. Some titles can be ordered on either videotape or laserdisc. I sent out an order for two discs in October and had to call in December to find out why there was such a delay. They were having a problem obtaining one of the titles and had held the order. Hopefully our phone discussion will convince them to send in stock items immediately and to backorder out of stock items. After calling I received my disc within one week.

The item received was a laserdisc titled Galileo: The Solar System. It is an animated film designed for elementary school audiences and looks to have been originally part of a TV series. The 24 minute film opens with an overview of the formation of the universe and the solar system. The scene changes to a young boy and his little sister watching the Sun set. She marvels at how fast the Sun moves, and he explains to her that it is really the Earth turning. They decide to investigate further with their new computer. The computer conjures up an inquisitive little character called Jeanie. She journeys to the time of Galileo to be present at key moments

in his life. We follow the development of his small telescopes and his studies of the Moon and Jupiter. We learn of his books The Starry Messenger and Dialog. The film also details, in a strong way, Galileo's conflict with the Catholic Church. I found the whole presentation to be well done.

By the way, the ending credits are superimposed over scenes of other episodes in the series. Some of them look like they would also be good for planetarium use.

This is not Disney style animation, but more like Speed Racer. It appears to have been originally produced in France and probably was dubbed into English. I can't find a copyright date on the product, but the program mentions the launch of the Galileo spacecraft, so it can't be too old. At \$189 I would not want to be purchasing the videotape version. The licensing agreement strictly forbids archival and backup copies being made. I expect the laserdisc edition to be more durable and serve us for many years. The laserdisc came with an eight page learning guide with information for the teacher and a student worksheet for duplication. The product is made available by Barr Films. Contact them at 800 234 7878 for a listing of all the films they distribute.



Astro-Video Review Editor  
Mike Chesman  
Bays Mountain Planetarium  
Kingsport, TN

Kismet Kerley  
Sophomore Intern  
Craigmont Planetarium  
Memphis, TN

(Kismet's picture will be available when we get our new QuickTake 150 digital camera. —Ed.)

## MAPS Meet-

The Middle Atlantic Planetarium Society will meet May 7-10 in Wilmington, DE. Spitz, Inc. will host the conference at the Wilmington Hilton. Rooms are \$85 per night, and the conference registration fee will be \$90. The theme will be the history of planetariums. Contact name name at 800 123 4567 for more information.

video.

NASA recently launched the Global Surveyor and Pathfinder missions to Mars. Mission control can operate Pathfinder by remote from the Earth. It will be able to move around Mars's surface in a way never before possible.

It seems the age old question of, Are we alone? will not be answered in this video, but it sure is fun to watch! Order it from Finley Holiday Films for \$14.95 by calling 800 345 6707.

Life on Mars: The Video  
continued

# The Best Flash for the Buck

George Barnett, III  
Technical Director  
Bishop Planetarium  
Bradenton, FL

Once upon a time there was a need for an effect that would dazzle audiences, bring a visual climax to the show, and catch everyone off guard. Thus the strobe light was introduced. A strobe light is a powerful xenon flash lamp that can deliver a blinding flash of light. It's commonly used in night clubs, planetaria, amusement parks, or anywhere a stunning visual effect is needed.

For many years planetaria have been dependent on a small number of manufacturers, or even our own technicians, to come up with these lights and then modify them to be triggerable through our automation systems. Some of these designs have proven sturdy and have had no problems. A few, however, have had trigger failures that result in a supernova behind the dome. Some have even had catastrophic failures and have actually

caught on fire. Virtually all makes have problems, especially those that are home made or modified. Potentially hazardous failures raise an issue that should concern all planetaria and is not confined to these special effects.

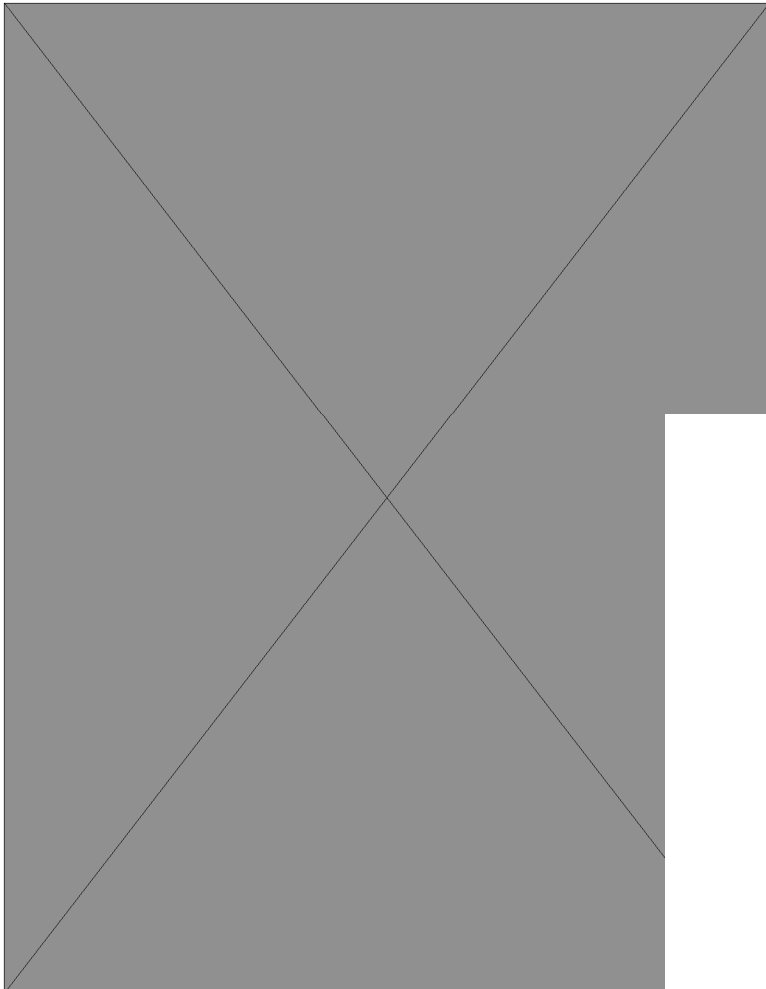
Have you looked at your liability insurance lately? Does it cover fire on non U.L. approved items such as modified strobe lights, or ones that have never been inspected by such an agency? Having 120V AC lines going to unapproved effects, lying on a conductive surface is not just a fire hazard, it's a health hazard. Many planetaria put up with this risk because they can't afford to purchase properly approved effects, or they don't have the technical staff to ensure that regular checks are made on all effects.

Last year I discovered a company in Apopka, Florida. Flash Works, Inc. has been manufacturing small and compact, weatherproof strobe lights for more than six years.

The lights come in many configurations, from small submersible pin strobes (\$80.00), to large 10,000 watt lightning simulators. These strobes are just great! You can't kill them! Though they do have a slow, 0.8 second refresh rate, there are very few applications that need strobes to fire faster than that. They run and are triggered on 12V DC — much safer.

The Mini strobe comes in a small composite box, with a clear plastic waterproof cover. All the user needs to supply is 12 volts at 200 milliamperes per unit, and you're then ready to blind your patrons! The best part is the company will warrant the entire device, including the bulb, forever!!! (Michael did say that, in the event of bulb failure, if we wanted to do in house replacement, he would actually provide the bulb.)

As I'm recommending these, and I work on a tight budget, you can bet that I've not found anything comparable in quality and price. In conclusion it is definitely more flash for the buck, it's safe and easy to hook up, and it's very effective. Plus, you've got to like anything guaranteed forever. Give Michael a call and see what he can light up for you. Call Flash Works







# News from SEPA States

George Fleenor  
Bishop Planetarium  
Bradenton, FL

## Bishop Planetarium, Bradenton

George Fleenor reports: capitalize on astronomical phenomena? You bet! As I mentioned at the last SEPA conference, and in the summer issue of Southern Skies, the Bishop Planetarium had big plans for the total lunar eclipse. Due to the extraordinary conditions surrounding the lunar eclipse, the Bishop Planetarium, in conjunction with The Local Group Of Deep Sky Observers, WYNF Radio (FM107.9), and Cafe Panificio, planned an evening of celebration and celestial discovery! The festivities kicked off at 7 p.m. with the family star show, The Starry Night Sky and The Moon Witch, a lunar themed presentation examining our closest celestial neighbor, and continued with three laser light show presentations of Pink Floyd's Darkside Of The Moon at 8:00, 9:15, and 10:30 p.m. (all of which sold out).

The Local Group of Deep Sky Observers (the Bradenton/Sarasota Astronomy Club) had 20 large telescopes on hand (two of which were 20"), in the Bishop Planetarium's North parking lot to assist visitors in viewing the Moon, Jupiter, Saturn, and Comet Hale Bopp. In addition WYNF aired live remotes throughout the evening from the Planetarium and accompanied the eclipse with a radio simulcast of the Pink Floyd classic, Darkside of the Moon.

Cafe Panificio, of Bradenton, was also on hand to assist with the celebration. The Italian cuisine restaurant brought in two large gas ovens and baked fresh pizza on the front lawn of the planetarium, where 50 chairs and tables were placed for visitors dining pleasure. The restaurant had pizza and beverages available for purchase, with donations benefitting the South Florida Museum, Bishop Planetarium, and Parker Manatee Aquarium. The event was a big hit! The only available parking was three blocks away! Approximately 2,600 people attended the Lunar Block Party and the facility netted several thousand dollars in profit! The Business Director has asked us to do it again next week! Yea, right! We do have another idea for Comet Hale Bopp! Yes, it too involves food! We might plan a pancake breakfast to coincide with comet observing. We have not yet determined

what laser shows will accompany the comet star show! It is only an idea!

Currently the planetarium is running two different star shows daily. Comet Tales, a joint production with Bays Mountain Planetarium, is featured at 1:00 p.m. and Comets Are Coming is presented at 4:00 p.m. Comet Tales is also presented each Friday and Saturday evening at 7:30 p.m. and followed by a live tour of the evening sky. Immediately following the evening star show, visitors join staff members in the Bishop Observatory for direct observation of the night sky (weather permitting).

A matinee laser show, Cosmic Classics is also presented daily at 2:30 p.m. The new show features classical music and composers. The Planetarium staff is also proud to announce the recent upgrade of the East Coast Control System. We finally switched our Apple platform to DOS. In doing so, we were able to eliminate 1.5 of 3 computers needed to automate the theater! Other upgrades include a Pangolin graphics system, new scanners, amplifiers, and laser!

On a different note: We are happy to announce the engagement of our Technical Director, George Barnett, to Alex Lovell. Alex, a former intern at the Buehler Planetarium, lives near London! Much to our sadness, the couple may reside there! George Barnett a Brit? We will keep everyone posted on this happy, yet solemn, occasion! George B. and the staff are looking forward to his bachelor party! At least we will have reasonable room rates (free) for the 1998 IPS conference! We are currently accepting applications for George's replacement.

## Indian River Comm. College, Fort Pierce

Jon Bell from Hallstrom Planetarium in Fort Pierce reports: The Hallstrom Planetarium got an early Christmas present when a local patron donated an unused Meade 10 Cassegrain telescope, complete with field tripod and many accessories, including some 2 TELEVUE lenses. Hallstrom Planetarium Director Jon U. Bell reports it does a superb job for lunar and planetary observations, and has used it for public programs following sky shows.

After this winter's comet show has ended, Jon will install Loch Ness The Mars Show just in time for the red planet's opposition this spring. In the meantime, Jon reminds us that if you have any astronomy quotes, anecdotes or historical dates, please send them to him so that he can continue work on turning them into publications through the International Planetarium Society. He's at: Indian River Community College, 3209 Virginia Ave., Fort Pierce, FL 34981. His e-mail is: <jbell@ircc.cc.fl.us>. Thanks!

Orlando Science Center, Orlando

Scott Niskach reports: The new Orlando Science Center will officially open February 1st. As part of the new facility, the Dr. Phillips CineDome makes its debut. The CineDome includes a Digistar planetarium, Iwerks 15/70 projection system, and AVI laser shows. The entire theater is controlled by SPICE. The opening film is The Living Sea, and the planetarium show is WSKY: Radio Station of the Stars.

Brevard Community College, Cocoa

Ian Griffin reports: Since August our staff has increased by two; we now have Mark Howard and Steven Rider as well as me working on show production. Mark comes to us via sea world and Steve comes via Munich Germany. We aim to create a bunch of shows for sale over the next year or so, so watch this space for details... .

We started laser shows back in September with a new in-house Floyd show which was joined in November by another in-house show on Led Zeppelin. We plan to open our new Beatles show on 31st January. Response to our shows has been terrific (We actually got a standing ovation on the opening night of our Floyd show amazing!)

The Planetarium now has a small shop, and an exhibit construction program has started. We have also just taken delivery of an SBIG ST8 CCD camera, which coupled

Freeport McMoRan Planetarium and Observatory, Kenner

There is still no new news concerning our new large format theater and planetarium. As I reported last issue, the project is currently on hold but talks still continue to proceed to get the project rolling again.

During the Christmas season we presented the Loch Ness Production 'Tis The

with our 12 f5 Maksutov is taking awe some images of deep sky objects. See all this on our web page at <<http://www.brevard.cc.fl.us/~planet>>.

Oh yes, that's new too... .

On the star show front we are running Amazing Universe and The UFO Show, and we have just received a \$15,000 grant from McDonnell Douglas to prepare a new show on Mars in time for the arrival of the Surveyor and Pathfinder probes later this year. The show is scheduled to open on 4th July. We are also running a new IWERKS film The Mystery of the Maya.

Alexander Brest Planetarium, Jacksonville

Submitted by Patrick McQuillan: Alexander Brest Planetarium is currently showing Comets Are Coming! We have gotten great audience response to this program. They love when SL 9 hits Jupiter and also when the dinosaur killer asteroid hits Earth. This program will tie in nicely with the passing of Comet Hale Bopp and be an easy tie in for any programming we do for viewing the comet at night from the museum. We are also running What's Up? This is a live tour of the current night sky. But instead of just being a constellation/planet/moon pointie outie program, we look at what the Hubble Space Telescope is doing, check in with the shuttle astronauts via NASA Select, and give updates on the various NASA planetary probes. The general lead in is something like: I wonder what's up with the space shuttle? We then turn on NASA Select and describe what the astronauts are doing on the current mission or let folks know that the next mission is in a few weeks. This sort of makes the show like headline news. Both programs run through the first week of May.

Season. This is a popular program with our audiences and continues to do well year after year. We have also been presenting our Sky Tonight program as well as a Solar System show for several local schools.

The current line up of laser shows includes Metallica, Best of Pink Floyd, Pink Floyd's Dark Side of the Moon, The Wall, the Alternative Laser Show, and their new est production LaserRave, which is techno

News from SEPA States  
continued

George Fleenor  
Bishop Planetarium  
Bradenton, FL

Michael Sandras  
Freeport-McMoRan  
Daily Living Science Center  
Kenner, LA

Michael Sandras  
Freeport-McMoRan  
Daily Living Science Center  
Kenner, LA

industrial. They plan to update some of the older shows which have been temporarily pulled from the laser show rotation and reintroduce them during 1997-98. They had the plasma tube from the argon laser refurbished, and the images on the dome are so bright, the shows are almost painful to watch.

Mark continues to train education staff to use the Starlab for outreach programs and has conducted several astronomy workshops for teachers in the new Orleans metro area.

Dennis is currently working on two classroom programs. One will teach students about radioactivity, and the other will focus on the role of collision as a geographical force in the solar system. He and Mark are collaborating on several other classroom programs in the physical sciences.

They are putting together a planetarium five year plan at the request of the Powers That Be. Those same Powers were kind enough to throw some money in the planetarium's direction, which Mark gleefully spent on new equipment without a second thought. They are discussing the feasibility of permanently dedicating a telescope to solar observing.

Mark and Dennis continue to gather information and materials for the proposed Apollo Adventures program. The program will highlight the contributions of the New Orleans metropolitan area to the Apollo program and include a discussion of the geological reasons for the selection of each Apollo landing site.

Finally, the Dome Gnome is still doing a wonderful job keeping the gremlins in check, with a few minor lapses. Mark and Dennis offered up a circuit board in sacrifice which has apparently appeased the Dome Gnome, because the gremlins disappeared. Dennis has finally stopped screaming whenever anyone mentions the words "organic chemistry," and he is still adding to his meteorite collection.

St. Charles Parish Library Planetarium,

Luling

Calendar year 1997 brings both an end and a beginning to our projects. Our building projects are behind us, but the prospect of an entirely new main computer system for our library looms in the new year. Of course since I wear two hats around here (computer tech and planetarium director), my time will be split between dealing with the two Cs—computers and comets.

For our offering during the comet season, we will be presenting Adler Planetarium's Comets Are Coming! I certainly hope this year will bring us better weather for viewing the comet than it blessed us with during last spring's Hyakutake.

Lafayette Natural History Museum Planetarium, Lafayette

We would first like to congratulate Dexter LeDoux, Planetarium Technician, and his wife Karen, museum secretary, who had a baby, Andrew Issac, on December 18, 1996.

Staff members have started meeting with the architect in preparation for the museum's move to the new building. Also, the planetarium is getting ready with the Adler Planetarium's Comets Are Coming in preparation for Hale Bopp's presentation this spring.

The planetarium is continuing to build a meteorite collection and plans to open an exhibit sometime this spring. Included in this collection is a specimen of a Martian meteorite and also of the only known meteorite fall to have occurred in Louisiana. For those of you who do not know where it occurred, it happened in Greenwald Springs, northeast of Baton Rouge.

Last March the city of Lafayette was visited by Soviet Cosmonauts. They will once again be coming to the city in October. The planetarium is helping coordinate several of their visits to local schools.

Russell C. Davis Planetarium, Jackson

Our busy holiday season included Loch Ness's Season of Light and Brevard Community College's The Alien Who Stole Christmas for sky shows along with BCC's A Fresh Aire Christmas and Big Ones (Jack Dunn's treatment of Aerosmith hits) for laser shows. In January Adler's Comets Are

Coming! came back for a two month run after an October premiere, accompanied in its orbit by The Dark Side of the Moon (a Davis original) and Jack Dunn's Wish You Were Here. Monday evenings during winter included a video projected film series to preview films being considered for 8/70 projection and our informal Backyard

Gary M. Lazich  
Russell C. Davis Plan-  
etarium

Astronomy course highlighting Mars and Comet Hale Bopp. In March we will offer The Mars Show, WSKY: Radio Station of the Stars, and a Red Moon Party on the roof for the lunar eclipse March 23.

Rainwater Observatory and Planetarium, French Camp

Director Jim Hill has obtained another telescope for the Observatory, this one a 12" complete with a 13" fiberglass dome,

along with hundreds of slides and dozens of books and magazines, all part of the bequest of a north Florida astronomer. The Mid South Regional Star Gaze will take place April 3-6 with excellent viewing prospects for Mars (just past opposition) and Comet Hale Bopp (just past perihelion). Dr. Gerrit Vershuur will again deliver a presentation, most likely one on planetary impacts. (I wonder what he'll have to say about the TV movie Asteroid?)

News from SEPA States  
continued

Gary M. Lazich  
Russell C. Davis Plan-  
etarium

Settlemyre Planetarium, Rock Hill

Glen Dantzler reports that all goes well at their facility. They completed a run of SpaceBus which was well received. In addition, they had a visit from NASA's traveling International Space Station Exhibit. For those who haven't seen it, this exhibit consists of two tractor trailers that are fitted together to provide a walk through view of what the space station will be like. In just the one weekend it was there, several thousand people were able to take in the experience. For this spring, a version of Adventures Along the Spectrum will run in conjunction with two new exhibits on the physical properties of light. Also they again hosting GATE: Gathering at the Equinox, an annual astronomy convention with guest speakers, and possibly an observing session if the weather cooperates. Glen is also extremely happy with a new slew projector from EECS which I'm sure will be put to good use.

for the audience, ride a comet in from the Oort cloud, and cover information on Hale Bopp. To accompany the show, a new comet exhibit featuring pictures by local amateur astronomers is being created. Also in the planning stages are two public Hale Bopp observing sessions at a local park. In addition to comet mania, we are continuing with a flurry of school shows. Space Explorer day camps for girl scouts will also be taking place later this spring.

Todd Slisher  
Gibbes Planetarium  
Columbia, SC

Dupont Planetarium, Aiken

In Aiken, Bill Dunwoody is filling in running shows for groups. No decision has yet been made as to a replacement for the past director Jim Mullaney. Over the Christmas holiday the Loch Ness show 'Tis the Season was featured. They are also running Through the Eyes of Hubble and some live star talks. Some new show kits from Loch Ness have also been ordered to expand their school programs.

Stanback Planetarium, Orangeburg

In Orangeburg Jim Brown is being kept very busy with school groups and shows. He reports finding a bit of time in order to work in a new FTP site on his server that is a mini mirror of Spacelink. Not all Spacelink material is included, but most of the educationally related activities plus a good selection of images are being stored. If you want to access it, the URL is <http://www.draco.scsu.edu/ftp.html> (a webpage that will gain you access). Also in the works are plans for comet activities this spring, most likely including the show Comets: From Ice to Fire and some public observing sessions.

Hooper Planetarium, Greenville

In Greenville, Doug Gegen and Jim Flood report a successful run of 'Tis the Season over the holidays. To compliment a robotic dinosaur exhibit, they will be running JHE's Dinosaurs in February. Next in the program lineup will be, Comets: From Ice to Fire to accompany comet Hale Bopp's celestial show. They are also working on public comet observing sessions from a dark sky site, since the area near the planetarium and observatory has heavy light pollution. Doug Gegen has also been working on some local light pollution ordinances, but with little success so far. Local groups have taken a very pro growth view in booming Greenville and are reluctant to place new restrictions. The observatory there will also play host to some interclub star parties. Saturday, March 29 will be the first of these dates. Anyone interested should contact Doug.

Gibbes Planetarium, Columbia

Here at Gibbes we are into Hale Bopp hysteria already. A new home brewed show, On the Tail of Comets, plays this spring. In it, we make a comet nucleus



Lisa F. DuFur  
Craigmont Planetarium  
Memphis, TN

### Bays Mountain Park Planetarium, King sport

The later part of 1996, our 25th anniversary year, was a busy time for us. The planetarium was given funds to purchase several nice meteorite specimens. Now that celebrations are over, they're being used as part of Hairy Brooms and Shootin Stars, a two hour classroom/ planetarium program on comets and meteorites being offered to 4th - 6th graders. The program readies students for Comet Hale Bopp.

Fall saw production of Adam Thanz's What is a Universe? January brought the installation of Mike Chesman's Comet Tales. The programs were narrated in Florida thanks to help from George Fleener and the Bishop Planetarium staff. Producing show tapes is easier since moving from four channel reel to reel to digital eight track. Everyone loves the cleaner sound.

The Bays Mountain Astronomy Club hosted an eight session beginner's class in November and will continue Saturday StarWatch programs through the winter. The group purchased a star spectroscope from Rainbow Optics. It works well and it's nice to be able to show a stellar spectrum with absorption lines to the public. Kids especially like the pretty colors.

As with most of us, the Bays Mountain group is getting ready for some extensive public observatory nights in March and April for the comet.

### Sudekum Planetarium, Nashville

Sharon Mendonsa and Waylena McCully are completing the '97 version of the Tennessee Sky Observer's Guide. This 50+ page effort features a detailed monthly sky calendar and seasonal star charts along with listings of general astronomy references, Tennessee planetariums and observatories, and information on topics from magnitudes to meteor showers.

Technician Wiley Vaughan left, and Robert Rodriguez has taken on the task of keeping everything operational. He is currently working on a simple way to make the standard Spitz pointer portable. Waylena has complained/begged for a portable white light pointer for a long time, and it may be easier to make than we thought. If the design works, Robert will write it up for the Journal.

Art director Pashur House is managing the '97 Visions of Space Student Art Contest. This year's theme is Space Gadgets and other Gizmos of the Galaxy. Students

in K-12 are being asked to design inventions for space explorers. How do you scratch your nose when wearing a helmet? How could you water plants without gravity. What do you use to keep hot chocolate on Pluto hot? Entries are accepted until February 28th. Maybe there will be a blue print for a zero gravity mouse trap.

Plans are underway for Comet Hale Bopp. A comet information guide is being produced for mass distribution. Several comet watches are already on the calendar. Jim Chapman, former Sudekum artist now at the Tennessean newspaper, has proposed a feature article to run in early March. Plus spring is always a hectic time for school programs and starlab bookings.

### Craigmont Planetarium, Memphis

We have been bombarded with shows because of SPACE MONTH! We really enjoy all our little aliens who come visit.

We've been delighted to introduce a new star show put into works a few weeks ago. Solar System Adventure Tour turned out to be a great success for our facility. The program was written by Dave DeRemer and the original music and sound track was done by Bowen Music Productions. It was developed in conjunction with the Great Lakes Planetarium Association for grades three - six. The audience participates by serving as Flight Engineers, Planet Specialists, or Math Experts. Students enter data as the program runs.

We will have two Thinkquest teams. Life on Mars will give vital information for Web browsers to create and plan a virtual reality mission on the red planet. Memphis students Elizabeth Shelly and Kismet Kerley will provide content. Duncan Teague and Lisa Dufur will coach. Andrew Holbrook from Madison, Wisconsin will do the technical programming of the site. Geoff Holt is his coach.

The other site is Here's to the Ladies. It deals with past, present, and future roles women play in science. This topic was suggested by a prominent female educator at last year's judging. The site will include the history of women in science; interviews, ideas, and advice from women presently in the science field; and mentoring programs for young women pursuing careers in science. Nicole Hassold and Kyle Thomas from Memphis and Jeff Sroka from Wisconsin are coached by Duncan Teague and Lisa DuFur from Memphis, and Mr. Sroka

Dave Maness requests if you are from Virginia and you have news items to be printed in the spring issue, please don't wait for him to contact you. please contact him by April 1 at the Virginia Living Museum, 524 J. Clyde Morris Boulevard, Newport News, VA 23601, (757) 595 1900 ext. 31, or by email to <pegasus321@aol.com>.

#### Chesapeake Planetarium, Chesapeake

Bob Hitt is very busy these days, working on a PhD in Science Ed. from Virginia Tech. He hopes for expansion of his planetarium or even the addition of a totally new science center facility. Public shows continue every Thursday, and school shows are running like clockwork. His Spitz A3P planetarium is about to celebrate its 35th year of reliable operation. He says he is one of the few planetariums left with decently dark skies. The planetarium is fitted with Sky Skan automation, with which he is very pleased.

#### Ethyl Universe Planetarium, Richmond

Eric Mellenbrink reports that a new in house production called Big Dirty Snowballs opens Feb. 22. They have finished installing a new Digistar II in the 76 dome. He is very pleased with the brighter, clearer, and sharper stars. The project was approved suddenly by state legislature, so they proceeded just as quickly. Outdoor construction is still going on in the park. It includes a Science park and a physics playground. They are redoing the landscaping of the front entrance and soon to renovate the office wing. The new Imax Dome movie opening Feb. 15 is Special Effects. There is also a new travelling exhibit called Planet Insect, with giant animated insects which opens in March.

#### Hopkins Planetarium, Roanoke

Acting Director Gary Close reports that the former Planetarium Director Britt Rossie has left the museum for other opportunities. Britt has joined a local school system to teach high school (9th grade) Earth science. As Acting Director Gary is busy with many school programs and little help. He currently has a staff of one full time (himself) and a few low hour part timers. He is running a locally produced sky show called Jewels of the Night written by Don Knapp. An interesting note about this show is that the Head Ranger who did the talk at the Native American site in

Macon, GA for our SEPA Conference there, narrates this show. They are also running Follow the Drinking Gourd in February for Black history month.

He is currently putting the finishing touches on a new home page for the planetarium. Watch for it at <<http://www.smwv.org>>. They are still proceeding with renovation plans and recently installed a BarcoData 701S video projector, and NEC IDC3000 scanline doubler, along with associated playback equipment from Sky Skan and automation from East Coast Control systems. He also working in conjunction with the Education Department on joint planetarium programs and labs involving the Amazon rain forest. He says that he may be looking for all the help he can get to put together the SEPA conference scheduled for 1998 in Roanoke.

#### Peninsula Planetarium, Newport News

To some, we may seem to have jumped the gun a little in the fall by offering the Comets are Coming from September November. This was in anticipation of the comet Hale Bopp as well as a Dinosaur exhibit we will be doing here this summer. The show contains a segment about Dinosaurs which would go very well with that summer exhibit. So we ran it a bit early allowing more time between runs. This leaves open the option of bringing the show back this summer, with the post Hale Bopp version of the soundtrack. Running the same show from Spring Fall seemed like a bit much. That left me with the problem of what to schedule for the Winter show. I chose The Mars Show from Loch Ness Productions. This is getting very good response from our visitors. The updated version is fast moving and dramatic with brief mentions of the recent failed missions to the red planet. It will be running when Mars reaches opposition in March. Our spring show will also be a Loch Ness production. Venus: Report from Magellan will hail the return of the brilliant beauty to evening skies later this year.

March 7 will mark the return of rock and roll laser shows to our theater for a 10 week run. We make no apologies about doing some non astronomy in the planetarium, recent arguments notwithstanding. The facts of life remain that the planetarium is the best laser venue, laser shows are fun, and they bring in much needed income to support educational programs. Besides, if we can reintroduce

Membership Committee  
Report  
continued

Dave Maness  
Peninsula Planetarium  
Newport News, VA

the planetarium to an age group that has been absent since grade school, then all the better. We will have the observatory open for viewing of Hale Bopp on some laser show nights in April.

Planetarium Lecturer Steven Thomas, hired last June, has demonstrated his skills by doing some voice over work on the side. He can do a very believable Jamaican or even Darth Vader. He is also proficient with straight narration, among his other talents.

#### Portsmouth Planetarium, Portsmouth

Mike Nold is now running Partnership Earth from Baltimore. They have plans for an upcoming exhibit on dinosaurs. He expects that the next few months will

be slow. It's the lull after the holidays, and school programs haven't picked up as yet. Also running this winter and into the spring is Lifestyles of the Stars from Bowen Productions. Mike says his facility is basically a one man operation with some part time show operators. These programs run through the middle of May.

#### Pretlow Planetarium, Norfolk

Bruce Hanna reports that they have suspended school shows until July in order to develop a new Telecourse in Astronomy. A new rooftop, remote controlled observatory is now under construction. This will be for the use of the staff and students of Old Dominion University.

# In Memoriam: Paul Campbell

Jim Hooks  
Kris McCall  
Bob Tate

---

From James A. Hooks:

I am sorry that I just received the sad message for my great friend and Colleague Paul Campbell. He was a true friend of my family and we have many pictures of him and me together. These will always remind me of the pleasurable sightseeing tours Mr. Campbell and I took together.

We were striving to communicate more often in the last several years because we both talked about health and its meaning to each of us. We would reminisce about good times together during the SEPA conferences and renew our friendship.

I would like to quote Emily Dickinson:

Heaven will not be as good as Earth,  
Unless it bring with it  
That sweet power to remember,  
which is the Staple of Heaven Here.

From Kris McCall

The Planetarium community is a small and generally tight knit group. I think of colleagues as extended family, and it is fun to discuss things other than planetariums and astronomy with them, things such as children or hobbies outside of work.

I must acknowledge Dr. Paul Campbell passed away on January 2, 1997. He was only 52 when he died from complications related to the juvenile diabetes that he had bravely fought for many years.

Dr. Campbell was a native of Louisville, KY but had been in Bowling Green, KY for many years. He was a graduate of Western Kentucky University in Bowling Green where he went on to serve as a professor of physics and astronomy and director of the Hardin Planetarium. Paul was a charter member and former president of the Southeastern Planetarium Association. He served SEPA in many capacities including representing SEPA at NSTA meetings, chairing a committee on by laws revisions, and as parliamentarian.

Dr. Campbell made significant personal as well as professional contributions to the planetarium community. He inspired and encouraged more than one new planetarian. He spent part of his time at conferences nurturing others and sharing his enthusiasm and experience. In the days

since his death, several friends have commented on how he had influenced them; even if only with a few minutes chat in the hospitality suite.

Paul had many interests outside of the planetarium, including investigating meteor impact sites, traveling, and music. Even though he had retired, Paul attended the SEPA conference in Nashville in June, 1996. He still wanted to participate in and contribute to the planetarium profession.

Once again, we have lost another wonderful friend years too soon. Though he may be gone from this world, his spirit lives on in those of us who were touched by and had the distinct pleasure of knowing Dr. Paul Campbell. I miss him very much.

From Bob Tate:

Since Paul was one of the founders of SEPA, he was one of the first people I met when entering this profession. I always found Paul to be friendly and easy to talk too and often wished we lived closer together so we could visit more often. Of all the people in SEPA, I looked to Paul for guidance on matters dealing with SEPA's direction. Paul was an expert on how organizations should be run and was instrumental in nearly all constitutional changes SEPA made. When amendments were considered, he had insights into what was the right thing to do. This strong sense of ethic often made him unpopular with university administrators, but it made Paul a very valuable member of faculty committees!

Paul had roots in the Atlanta area and was always interested in what our planetariums were doing. He loved to travel. It never ceased to amaze me he thought nothing of driving 20 hours during a weekend to visit friends in distant places. To my knowledge he never missed a SEPA conference.

I dined with Paul and a few other Old Timers during the river cruise at the Nashville meeting. Paul was not in good health then, but we all enjoyed the evening spent talking about past events and swapping stories. That evening will remain as one of those memories which stick with us long after the details are lost.

# HST's Greatest Hits of '96

Duncan Teague  
 DT Publishing  
 3308 Bluemont Drive  
 Memphis, TN 38134-8454

The Space Telescope Science Institute (STSci) provides slides of Hubble images to individuals within regional affiliates who arrange to duplicate and distribute them. At our '96 conference, I was designated to receive and coordinate STSci materials and make them available to SEPA members.

Below you'll find a brief description of all 40 images distributed in 1996. Numbers next to the descriptions are shortened versions of STSci press release numbers, e.g., 21a refers to PR 96 21a.

The entire set of 40 slides is \$50, including postage and handling. Send your check or purchase order to the address at left.

- |  |  |
|--|--|
| <p>01.a Hubble's deepest ever view of the universe, revealing 1,500+ extremely faint galaxies in various stages of their development</p> <p>01.b Sample galaxies from the same Hubble deep field</p> <p>02 The inner region of a warped dust disk around Beta Pictoris once hidden because of the star's glare</p> <p>03 An image of the Egg Nebula taken by WFPC2; it shows the emergence of mysterious searchlight beams from behind a dying star</p> <p>04 The first direct image of a star other than the Sun: Betelgeuse.</p> <p>05 In more detail than has ever been seen before, the process a star like the Sun goes through when it dies</p> <p>09.a In clear, detailed pictures the first ever images of Pluto's surface; four views</p> <p>09.b Pluto surface map</p> <p>10 Gravitational lens effect captures image of primeval galaxy</p> <p>11 Images of globular cluster Mayall II, consisting of 300,000 old stars, in orbit around the Andromeda galaxy</p> <p>13.a The Helix Nebula, NGC 7293 showing collision of gases near a dying star</p> <p>13.b Helix Nebula detail with cometary knots surrounding the dying star</p> <p>14 A view of Comet Hyakutake that focuses on the near nucleus region of the comet</p> <p>15 Three layers of Uranus's atmosphere</p> | <p>taken with infrared filters; both clear and hazy layers created by a mixture of gases</p> <p>16 Image taken of Saturn where its rings appear edge on because of the position of the Earth in Saturn's orbital plane</p> <p>17 A view of several star generations found in the central region of the Whirlpool Galaxy</p> <p>18.a A rare view of Saturn's rings seen just after the Sun had set below the ring plane</p> <p>18.b A series of 10 images of several small moons orbiting Saturn</p> <p>21.a NGC 1365, a barred spiral galaxy located in the Fornax cluster</p> <p>21.b NGC 4639, a spiral galaxy located in the Virgo cluster</p> <p>22.a The Crab Nebula and a detail of the pulsar in its center</p> <p>22.b Sequence of three images showing changes in the Crab Nebula pulsar</p> <p>23.a Huge, billowing pair of gas and dust clouds in Eta Carinae</p> <p>23.b Expansion of Eta Carinae debris</p> <p>25 Hubble's 100,000th exposure captures an image of a distant quasar</p> <p>27 A vast nebula, NGC 604, which is known for a great starbirth region</p> <p>29.a 18 gigantic star clusters which may be building blocks for a new galaxy</p> <p>29.b Blue sub galactic clumps which may be galaxies under construction</p> <p>30 Jupiter's moon Io passing above turbulent clouds</p> <p>31 Clusters of stars and a fishhook shaped cloud of gases found in NGC 2366, a giant star forming region</p> <p>32 Changes in Jupiter's auroral emissions</p> <p>33 Views of weather on opposite hemispheres of Neptune</p> <p>34 A Martian dust storm around the edge of the north polar cap</p> <p>35.a A survey of quasar host galaxies</p> <p>35.b A quasar caught in the act of colliding with its companion galaxy</p> <p>36.a Supersonic comet like objects in the Cartwheel Galaxy</p> <p>36.b Cartwheel Galaxy composite image</p> |
|--|--|



# *Southern Skies*

VOLUME 16, NUMBER 3

JOURNAL OF THE SOUTHEASTERN PLANETARIUM ASSOCIATION

SUMMER 1996

## In This Issue

President's Message.....	1
IPS Report.....	2
Editor's Message.....	3
SEPA Membership Form.....	3
Featured Planetarium: Settlemyre Planetarium, Rock Hill, SC.....	4
Small Talk.....	5
Digital Cosmos: Views of the Solar System CD ROM.....	6
Life on Mars: The Video.....	6
Astro-Video Review: Galileo: The Solar System.....	7
MAPS Spring Meeting.....	7
The Best Flash for the Buck.....	8
missing page.....	9
News from SEPA States.....	10
In Memoriam: Paul Campbell.....	16 – 17
HST's Greatest Hits of '96.....	18

Southern Skies is the quarterly journal of the Southeastern Planetarium Association published for the purpose of communicating association news, reports, reviews, and resources to its members. Contents © 1997 by the Southeastern Planetarium Association and individual authors. Permission is granted to reprint articles in other planetarium, astronomy, or science related publications under the following conditions: 1. Attach a credit to the article stating, "This article was originally published in Southern Skies, journal of the Southeastern Planetarium Association;" and 2. Send courtesy copies of your publication to the Southern Skies editor and the author.

### Officers

President  
Mike Chesman  
Bays Mountain Park Planetarium  
853 Bays Mountain Park Drive  
Kingsport, TN 37660  
Voice: (423) 229-9447  
Fax: (423) 224-2589  
Email: baysmtn@tricon.net

President-Elect  
George Fleenor  
Bishop Planetarium  
201 10th Street West  
Bradenton, FL 34205  
Voice: (941) 746-4132  
Fax: (941) 746-2556  
Email: Jetson1959@aol.com

Secretary/Treasurer  
Duncan R. Teague  
Craigmont Planetarium  
3333 Covington Pike  
Memphis, TN 38128-3902  
Voice: (901) 385-4319  
Fax: (901) 385-4340  
Email: StarMarTNG@aol.com

Past-President  
Kristine K. McCall  
Sudekum Planetarium  
800 Fort Negley Boulevard  
Nashville, TN 37203  
Voice: (615) 401-5077  
Fax: (615) 862-5178  
Email: mccalk@ten-nash.tenk12.tn.us

IPS Council Representative  
John Hare  
3602 23rd Avenue West  
Bradenton, FL 34205  
Voice: (941) 746-3522  
Fax: (941) 747-2556  
Email: jlhare@aol.com

Southern Skies Editor  
Duncan R. Teague  
3308 Bluemont Drive  
Memphis, TN 38134-8454  
Voice/Fax: (901) 388-3266  
Email: StarMarTNG@aol.com

### Associate Editors

AstroVideo Review  
Mike Chesman  
Bays Mountain Park Planetarium  
853 Bays Mountain Park Drive  
Kingsport, TN 37660  
Phone: (423) 229-9447  
Fax: (423) 224-2589  
Email: baysmtn@tricon.net

Digital Cosmos/Graphics  
Mike Cutrera  
Bishop Planetarium  
201 10th St. West  
Bradenton, FL 34205  
Voice: (941) 746-3522  
Fax: (941) 746-2556  
Email: Zoot11@aol.com

Featured Planetarium  
Dave Hostetter  
Lafayette Natural History Museum  
and Planetarium  
637 Girard Park Drive  
Lafayette, LA 70503  
Phone: (318) 268-5544

Laser Talk  
Mark Howard  
Buehler Planetarium  
3501 SW Davie Road  
Davie, FL 33314  
Phone: (305) 475-6681  
Fax: (305) 474-7118

Reviews  
Patrick McQuillan  
Alexander Brest Planetarium  
1025 Gulf Life Drive  
Jacksonville, FL 32207  
Phone: (904) 396-7062  
Fax (904) 396-5799  
Email: PatAstro@aol.com

Small Talk  
Elizabeth Wasiluk  
Berkeley County Planetarium  
Rt. 1, Box 89  
Hedgesville, WV 25427  
Phone: (304) 754-3354  
Fax: (304) 754-7445

