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Goddard Space Flight Center

Goddard News

Greenbelt, Maryland and Wallops Island, Virginia

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GSFC Participates in Airborne Antarctic Ozone Experiment

by Randee Exler

Goddard is supporting a cooperative investigation which will help scientists better understand the nature of a puzzling phenomenon—the formation of record low total ozone amounts over the Antarctic in a region known as the ozone hole.

In particular, there are indications that the amount of ozone over the Antarctic, in early springtime, has been decreasing over the last eight years. Ozone is the chemical that shields Earth life from harmful ultraviolet radiation from the Sun. Atmospheric chemists have proposed that the growing number of fluorocarbons in the atmosphere have destroyed the ozone, while physicists—using ozone maps from Goddard's Total Ozone Mapping Spectrometer (TOMS) aboard the Nimbus-7 spacecraft—propose that circulation changes are responsible for the hole. In October 1985, the ozone in the hole was 22% lower than the lowest ever observed before 1980, according to Dr. Arlin Krueger, GSFC principal investigator.

Ozone Experiment

NASA is conducting a major airborne experiment to resolve this question. The mission depends on the production of real-time TOMS data from Goddard for its successful deployment.

The Airborne Antarctic Ozone Experiment will fly NASA ER-2 and DC-8 aircraft specially fitted with remote sounding instruments to measure ozone, aerosol profiles and other chemical constituents of the Antarctic atmosphere. The flights into the Antarctic ozone hole are scheduled for August 17 through September 29.

Near real-time ozone maps from TOMS will be used for operational planning and to direct the aircraft to the ozone hole, according to Krueger. TOMS is the only source of high resolution global information about the total ozone content of the atmosphere.

Aircraft Missions

The ER-2 is scheduled to fly up to 10 separate missions from Punta Arenas, Chile on the extreme southern tip of South America at the Straits of Magellan, over the Antarctic to about 72 degrees south latitude and then return. This flight plan allows substantial penetration of the ozone hole. The DC-8 has a vastly longer range and will fly farther south into the ozone hole as well as investigate the region around the hole.

The timing of the flights coincides with the onset of the hole—which begins at the end of winter in the southern hemisphere and lasts through spring—and with sunlight conditions required for the aircraft flights.

Under Krueger's direction, Goddard will produce the TOMS data and transmit it to Punta Arenas, in near real-time, for the duration of the flights. Data from the Nimbus-7 Solar Backscatter Ultraviolet (SBUV) instrument and NOAA-9 SBUV/2 also will be produced in near real-time as a backup for the TOMS, which now has operated continuously for 8½ years. Mark Schoeberl, Code 616, is traveling to Punta Arenas to assist in flight planning strategy and scientific analysis.

A group led by Drs. Joel Susskind and Wayman Baker, Code 611, also is sending same day total ozone analysis to Punta Arenas, derived from the High Resolution Infrared Sounder-2/Microwave Sounding Unit (HIRS-2/ MSU) instruments onboard the NOAA-10 spacecraft.

"HIRS-2/MSU will serve as an additional backup to TOMS," said Susskind.

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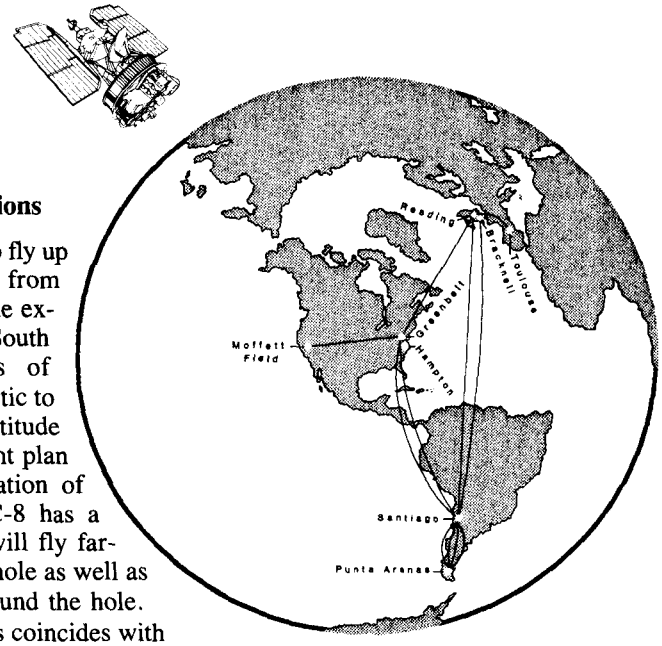

***COMMUNICATIONS NETWORK*—Goddard's Total Ozone Mapping Spectrometer (TOMS) aboard the Nimbus-7 spacecraft (pictured) is supporting NASA's Airborne Antarctic Ozone Experiment. Goddard, through a contract with Research and Data Systems, Inc., set up a mission communications network for the experiment. Six leased lines connect the GSFC TOMS Operations Center with the Mission Operations Center, Punta Arenas, Chile; the United Kingdom Meteorological Office, Bracknell, England; and the European Center for Medium-range Weather Forecasting (ECMWF), Reading, England. Existing lines between the following locations also are being used: GSFC to Ames Research Center, Moffett Field, CA; GSFC to Langley Research Center, Hampton, VA; and the ECMWF to Centre National de Recherche Meteorologique, Toulouse, France. All communication lines in Chile must pass through Santiago.**

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Ozone Experiment

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"HIRS-2/MSU data agree reasonably well with those obtained using TOMS but are of lower spatial resolution and somewhat poorer quality," he added.

Code 611 personnel also will forward to Punta Arenas other quantities derived from HIRS-2/MSU data such as cloud height and amount and atmospheric temperature, as well as stratospheric analyses of wind, temperature, and potential vorticity obtained with an atmospheric general circulation model running in an assimilation mode. This information may be useful in interpreting the ozone data.

Communications Network

Sol Broder and Jerome Bennett, Code 630.4, assisted by Bob Hudson, Code 616, will oversee the mission communications network, which connects the GSFC TOMS Operations Center; the Langley Research Center, Hampton, VA; the Ames Research Center, Moffett Field, CA; the Mission Operations Center, Punta Arenas, Chile; the United Kingdom Meteorological Office (UKMO), Bracknell, England; the European Center for Medium-range Weather Forecasting (ECMWF), Reading, England; and the Centre National de Recherche Meteorologique (CNRM), Toulouse, France.

The Code 616 TOMS Operations Center, Building 21 and the Rolm Switching Center, Building 1, are key nodes in the project. In addition to transmitting the real-time TOMS data to Punta Arenas, the Building 21 Center is relaying near real-time NOAA-10 HIRS data to the ECMWF for total ozone analysis by the CNRM.

The TOMS Operations Center is serving as an alternate to the Mission Operations Center, Punta Arenas, in case of a communications network failure. The Mission Operations Center is staffed with atmospheric physicists and meteorologists who will analyze the weather conditions over the Antarctic and conduct research on the mechanisms for formation of the ozone hole.

Balloonborne Measurements

A team from Wallops is flying balloonborne meteorological and ozone radiosondes — measuring instruments — daily through October from Palmer Station on the Antarctic Peninsula. The data will be used to make launch decisions for the ER-2 and DC-8 aircraft and are expected to provide information on the vertical structure and horizontal extent of the ozone hole.

The mission is organized and managed by NASA with substantial contributions from the National Oceanic and Atmospheric Administration and with the cooperation and involvement of the National Science Foundation (National Center for Atmospheric Research and Polar Programs Division), the Chemical Manufacturers Association, various U.S. universities and selected European meteorological organizations.

Goddard Team Develops Supernova Instrument

by Carter Dove

SERLEMITSOS

A team of scientists and engineers from Goddard is developing a special instrument they believe will give scientists the most direct proof possible of where and how heavy elements such as oxygen, calcium and iron—the ones necessary for life and for the formation of planets—were first formed.

Dr. Peter Serlemitsos, Code 666, said that the instrument under development, the Supernova X-ray Spectrometer (SXS), is scheduled for launch aboard a sounding rocket from Woomera, Australia in the late Fall to observe the recently-discovered exploding star, Supernova (SN) 1987a. The instrument will be recovered and used for later flights, also.

SN1987a was the result of the February 23 explosion of the star Sanduleak 69-202 located in the Large Magellanic Cloud, a neighboring galaxy of our own Milky Way.

Because the emissions from the star now are obscured by expanding debris, the late Fall launch of the SXS is contingent on the star's being visible in the x-ray band, Serlemitsos explained.

He said the supernova is being monitored for x-ray emissions by the Japanese satellite, Ginga. When it detects x-ray emissions, the Goddard scientists hope to launch the SXS to collect data during the early period of escape when optimum data will be available.

With assistance from engineers of the Optics Branch, the SXS is being developed almost exclusively within Goddard's Laboratory for High Energy Astrophysics.

Serlemitsos, a member of the laboratory staff, is the principal investigator for the SXS.

Goddard's role in the SXS development program stems from a response to a NASA Headquarters call for proposals for rocket and balloon instrumentation to view SN1987a.

The SXS design is primarily patterned on that of the Goddard-managed Broad Band X-ray Telescope (BBXRT), using the same type of x-ray mirror and detector as the BBXRT but modified to meet sounding rocket constraints.

Launch of the spectrometer from Woomera will be from a Terrier-Black Brant sounding rocket managed by Wallops.

Considered by most scientists to be the most significant astronomical event of the century, SN1987a is the first supernova seen since 1604 and the first bright supernova since the invention of the telescope in 1609.

DIAL 286-NEWS

Feeling out of touch? Out of the news mainstream? Dial 286-NEWS. This is the new number for the Office of Public Affairs code-a-phone. Dial in for up-to-the-minute information on Goddard and related events.

Mail your story to the Goddard News (Code 130), or call the Editor at 286-7277.

Hoffmann Receives Small Business Award

by Randee Exler

FEDERAL EMPLOYEE OF THE YEAR—**Goddard's Small Minority Business Specialist Franz "Frank" Hoffmann, Code 263, (right) and Procurement Officer Charles "Chuck" Dunfee, Code 200, hold the trophy that Hoffmann was awarded by the U.S. Small Business Administration for his "...exemplary procurement support to the minority business community."**

You might know Franz "Frank" Hoffmann, Code 263, as the man behind Goddard's annual Small and Small Minority Business Conference. Recently Frank, Goddard's Small and Minority Business Specialist, was selected by the U.S. Small Business Administration (SBA) Region VI as the Federal employee of the year award winner of the Hilary J. Sandoval Jr. Award.

"This award is presented to an individual who has demonstrated exemplary support to the minority business community," wrote Joseph Pena, SBA, Regional Administrator, in a congratulatory mailgram to Goddard Director John Townsend, Jr.

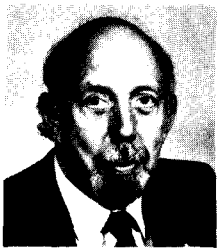
Hoffmann, Head of the Procurement Analysis Branch, Code 263, was nominated because of Goddard's outstanding support of minority businesses, according to Eugene D. Rosen, Director, Office of Small and Disadvantaged Business Utilization, NASA Headquarters. In 1986, Goddard awarded $83 million to minority businesses and during the first six months of fiscal year 1987, Goddard awarded $34.8 million to small minority businesses. This was over twice as much as any other NASA center and accounted for 34.2% of all NASA awards to minority businesses.

The Hilary J. Sandoval Award is named after the first Hispanic Administrator of the SBA. Sandoval's contributions to minority small business have been called both far-reaching and long-lasting by SBA officials.

Hoffmann received this special award in El Paso, Texas last month. Upon his acceptance, he said: "We at NASA are very excited about receiving this award. I personally am very proud to represent our NASA Goddard Space Flight Center team that understands and implements the 8(a) program on a day-to-day basis. Our engineers, scientists and administrative people believe in the 8(a) Program and what it has done and will do to strengthen this Nation's society... It has been proven by Congressional studies that small businesses are the leaders in innovation, and innovation is this country's competitive edge in the world market. Therefore, we all must thank our small businesses for what has been and will be done to improve this Nation's standard of living..."

NASA Chief Scientist and GSFC Associate Director Appointed

HINNERS



McDONALD

Former center director Dr. Noel Hinners will serve as the NASA Chief Scientist in addition to his responsibilities as Associate Deputy Administrator (Institution), effective August 24. Dr. Frank McDonald, who has been Chief Scientist since September 1982, will return to Goddard as Associate Director/Chief Scientist.

As the NASA Chief Scientist, Dr. Hinners will be the principal advisor to the Administrator and to senior management on agency-wide aspects of NASA's scientific activities. Dr. Hinners was Goddard's center director from June 1982 to June 1987.

Dr. McDonald began his NASA career in 1959 as head of Goddard's Energetic Particles Branch in the Space Science Division. In 1970, he became chief of the Laboratory for High Energy Astrophysics at Goddard. He was detailed to the White House Office of Science and Technology Policy as a senior policy analyst in 1982.

HEAO-1 Anniversary

August 12, 1987 marked the tenth anniversary of the launch of the first High-Energy Astronomy Observatory (HEAO-1), the heaviest unmanned scientific satellite (three tons) up to the year 1977.

Alanna Connors, a University of Maryland graduate student, is completing her Ph.D. dissertation based on Goddard's HEAO-1 cosmic X-ray experiment. As part of the anniversary activities, Connors announced, in a seminar on August 12, significant new results concerning the first evolution of the spectrum of X-radiation from a gamma-ray burst. This is the first time that the evolution of a complete burst has been observed and the best spectroscopy to date, according to Connors.

"Teachernaut" Returns to Classroom After Two Years With NASA

by David Thomas

TEACHER AND STUDENTS—**Teacher-In-Space Finalist Kathleen Beres shared her enthusiasm for the Nation's space program recently with guests at the Visitor Center. Beres, a Baltimore science teacher, has been on sabbatical in the Office of Public Affairs.**

As the excited group of employees gathered in the lobby for a gander at who was being honored with limousine service, the honoree wondered if she could have spared them the commotion by being picked up at a more remote site.

Ah, but pomp and circumstance have been the norm for this lady since being selected two years ago as one of ten finalists in NASA's Teacher-In-Space Program. This event would be just another fast descent on the roller coaster ride she's been on since being launched into an orbit of speaking engagements, impromptu appearances, media interviews and work with NASA.

On this day, Kathleen Beres—a science teacher from Kenwood High School in Baltimore, MD, on sabbatical in Goddard's Office of Public Affairs—would be sharing the stage with Vice President George Bush and Dr. Robert Jarvik, famous for the Jarvik-7 artificial heart. Beres, the "Space Ambassador," would stand in for Mrs. Bush, who had to cancel her appearance. The three celebrities would present awards to nine student finalists in Invent America, a national contest sponsored by MasterCard International which judges inventions by students in kindergarten through eighth grade.

Beres will return to the school system this fall after two years of teaching and learning in the NASA classroom. She will be a consultant to science teachers, sharing with them her NASA experiences.

She worked at Marshall Space Flight Center, Huntsville, AL the first and second year at Goddard, which she said she liked because of the research atmosphere, and because "it was like being on a college campus, again." Beres majored in premedical sciences at the College of Notre Dame of Maryland and received a master's degree from Johns Hopkins.

The only science teacher among the finalists, Beres said she actually reached more students after becoming a Space Ambassador. "In the usual classroom setting, I'd teach about 150 students daily," she said. "The NASA outlet has enabled me to reach more than 150,000 students in a relatively short time."

Moreover, observing day-to-day field center operations impressed Beres. "Virtually all the employees were proud to be working for the space program," she said. "Everyone was excited and enthusiastic,

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THEY HAVE ESP — **Benita Cooper, Director of the Management Operations Directorate, recently held a special awards presentation for Code 200 employees who contributed to the Employee Suggestion Program (ESP). BACK ROW (left to right): Richard Fedorchak, Code 290; Terry Velasco, Code 290; Benita Cooper; John Baniszewski, Code 285; Helen Zug, Code 250; Greg White, Code 290. FRONT ROW: Veronica Stubbs, Code 260; Cindy Cherrix, Code 280; Sharon Bland, Code 280; Ellen Ollendorf, Code 280; Janet Jew, Code 260; Jan Tetrick, Employee Suggestion Program Coordinator, Code 224.**

ESP on the Move

by Jan Tetrick

The Center Employee Suggestion Program (ESP) has undergone some new changes. A Center-wide Employee Suggestion Committee, consisting of representatives from each directorate has been organized. Recently, the committee reviewed ideas submitted for the Equal Opportunity Award.

Another addition are new ESP boards in every building. These boards contain the ESP forms and envelopes and flyers on ESP.

More people are submitting ideas and more ideas are being adopted. In FY85, two suggesters shared a ESP cash award of $5,000. IN FY86, 33 cash awards, ranging from $50 to $500, were received. So far, in FY87, 21 employees have

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From Student To Teacher:

Former SHARP Student Reverses Role

by David Thomas

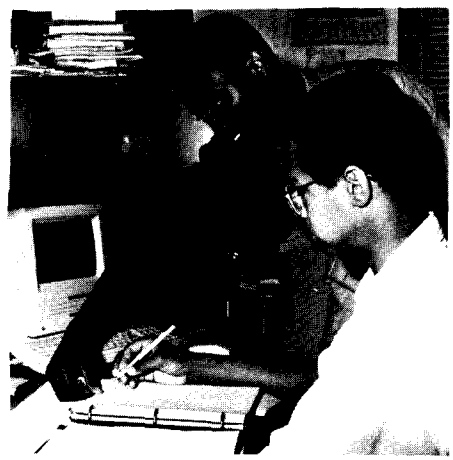
When Cyn Hadnott solicited mentors for this year's Summer High School Research Apprenticeship Program (SHARP), she was unaware that among the acceptees was a newly-hired employee who participated in the program at its inception here in 1980.

"When I called him," explained Hadnott, SHARP coordinator for the last four years, "he didn't tell me he had been in the program. I didn't find out until I read the project summary he submitted a few days later." He is the first SHARP student to graduate from college and work at Goddard.

"He" is 24-year-old Nathan "Nate" James, a systems programmer in the Central Data Services Facility. This story is about him, how he's returning to the SHARP Program what he received from it: direction, career counseling and work experience pertinent to his future endeavors.

James' role reversal epitomizes the benefits of a program like SHARP—student becomes teacher and enlightens others as he once was. But not only is James a mentor in the SHARP Program, which encourages talented and gifted students to pursue technical careers, he is a mentor in life as well.

Involved in many church activities since he was a tot, James is now a senior member of the Young Adult Ministry, in which he teaches other youth the virtues of leadership; he also writes music for the church's 30-piece orchestra and aspires to be its music director, something that's "in his blood" because his mother is director of the church's Music Ministry. Because he likes music, gospel and jazz especially, he also works with the Audio Ministry Department, mixes gospel music and deejays gospel at a local roller skating rink.



SHARP SUCCESS—**Former SHARP intern "Nate" James, Code 633, (back) was hired by Goddard as a Systems Programmer in the Central Data Services Facility and now serves the program as a mentor to future oceanographer Anthony Hill.**

Asked if he's considered becoming a minister, he puts a finger to his temple and peers into space as he ponders with a smile. "Well, not necessarily from the pulpit," he answers. "You see, I consider the marketplace my ministry."

Indeed, in the year that he's been a full-time professional at Goddard with his computer science degree from the University of Maryland, he has established a bible study class. The class evolved from lunch-time discussions among a small group of friends, he said. "Now we've got a room in Building 18 where I teach the class weekly."

In the family setting, James' role-modeling responsibilities are two-fold: because he has two younger brothers, he knows it's imperative to set a good example; as a family-man in his own right—he's been married three years and he and his wife are expecting their first child—he wants his own family to look to him for leadership.

"I think everyone should have someone to emulate," he said.

Will James' student, 16-year-old Anthony Hill, emulate his mentor?

"Of course," Hill said. "When 'Nate' was in SHARP, one of his tasks was to write a useable Fortran program for his project. He's teaching me how to write Fortran now...I'm confident my project will be just as good or better."

James said Hill is catching on fast and expects him to complete successfully his project during the eight-week program. Hill, now attending the Baltimore Polytechnic Institute, plans to attend the U.S. Naval Academy and eventually wants to become an oceanographer.

Fortunately, things might work out so that James will be a mentor for SHARP students for years to come. Regarding career plans, James said he's not one who has to change jobs every three years.

"Once I've settled on something, I usually stick with it," he said. "I'm sure I'll be with Goddard for a while because it's proved to be fertile ground."

The cycle appears to be productive. You know, those sayings that go: " 'You reap what you sow...You only get out of something what you put into it.' " James benefitted from SHARP by gaining insight about the workplace and direction for career growth. At the very least, he is providing the same things to Hill, the future oceanographer.

"A Celebration of Citizenship"

September 16, 1987
1:00 p.m.

Participate in a once-in-a-century event! The event, called "A Celebration of Citizenship," commemorates the 200th anniversary of the Constitution of the United States.

President Reagan will lead the Nation in the Pledge of Allegiance and Chief Justice Warren E. Burger will lead a recitation of the Preamble to the Constitution on September 16 at 1:00 p.m. The ceremonies will take place on the west steps of the Capitol, and everyone is invited to attend.

Can't make it downtown for the event? National radio and TV will cover the Mall ceremonies. Why not bring in a transistor radio and tune into the broadcast from your office? How about wearing red, white and blue?

This is your chance to participate in an historic occasion which rededicates the document which gives us the blessings of liberty. For more information, phone the Commission on the Bicentennial of the United States Constitution, Federal Programs Division, at (202) 653-2486.

Employees Enjoy a "Silent Lunch"

"It's hard not to talk with your hands full!," said Jackie Cooper, Code 224, organizer of the "silent lunch," a weekly session for employees who want to practice their sign language skills.

Cooper, along with other recent graduates of a Goddard-sponsored sign language training course, get together on Tuesdays at 11:30 a.m. in the Building 21 cafeteria to practice their newly-acquired skills over lunch.

"You have to keep it up or you'll forget what you've learned," she explained.

Sign language training is one of many courses offered at Goddard. The sign language instructors are from Gallaudet College, a higher-education institution for the hearing-impaired, located in Washington, D.C.

"I feel pretty good about what I learned," said Cooper. "I really got a lot out of the course," she added. "There might be an advanced course offered here next year which I would be interested in taking."

Margie Small, Code 253.1, was asked to photograph a recent "silent lunch." Small, who is hearing-impaired, couldn't help but join in the session.

"I'm glad I got to help them practice their sign language," she explained. "People don't realize that deaf people can slow down and use basic signs that beginners can understand. We don't bite! People shouldn't be afraid to practice with me or any of the other deaf employees on Center."

DO YOU KNOW WHAT THEY'RE SAYING?— **Left to right: Jackie Cooper, Code 224.2, Pat Greco, Code 224.2 and Gloria Blanchard, Code 286 don't want to forget what they learned in class so they practice their sign language skills over lunch.**

Visitor Center Tour Guide Training Begins

Training began for the Visitor Center's volunteer tour guides on July 9 and will continue through August. The volunteers will be receiving first-hand information from Goddard's network of scientists, engineers and researchers so they can help explain Goddard's mission and exhibits primarily to school groups. "On behalf of the Visitor Center and the Office of Public Affairs, I'd like to thank this group for donating its time to Goddard," said Darlene Ahalt, Volunteer Coordinator. "The group is really enthusiastic about the space program and looking forward to working with students." Pictured: BACK ROW: (left to right) William O'Leary, Visitor Center Staff; George Dow; Mark Zetterstrom; Robert Wilson; Roland Van Allen; Dr. Robert Goddard (photo cutout); Darlene Ahalt, Volunteer Coordinator; Richard Lowman; Kenneth Horner; Robert Sclater, Visitor Center Manager. FRONT ROW: Janet Butler, Marie Jensen, Elisabeth Redsecker, Harriet Mensky, Jacques Aimi, John Casey, Gerald Gaffney.

"Teachernaut"

Continued from page 4

whether a co-op student or employee about to retire."

A Baltimore County newspaper quotes her as saying "... There's no university, no graduate program in the world that could have afforded me the experience that I've gotten in these last two years."

Beres is setting a good example for youngsters to emulate: "not following where the path may lead, but, instead, going where there is no path and leaving a trail." A small indication of her success in this respect is the influence the Teacher-In-Space Program has had on young students.

Our interview for this story followed a conversation she had with a starry-eyed 11-year-old girl, clad in shuttle-astronaut garb, who had just returned from Space Camp. The youngster quizzed Beres for nearly two hours on how to become an astronaut.

In keeping with her lifestyle, becoming an astronaut is merely an extension of her many adventures: she has climbed Mount Kenya, traversed glaciers in Greenland, kayaked in Alaska and crossed the ocean in a 31-foot sailboat. Most recently, she conducted research on penguins in southern Argentina.

But NASA was her most exciting adventure of all.

ESP

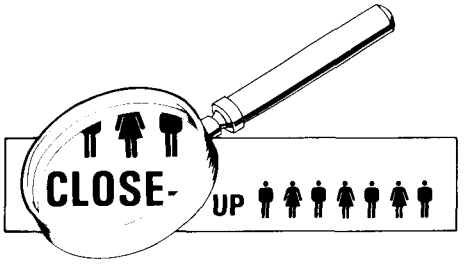
Continued from page 4

received cash awards ranging from $50 to $750. Code 200 recently held a special ESP Awards presentation which recognized 19 employees for their contributions to the Center ESP.

What is a suggestion? A suggestion is an idea which, when implemented, will result in more efficient or more economical operations, or any other improvement in Government operations. It may propose: a way of reducing operating costs; improvement of procedures, products, services, safety, employee relations, or public relations; new uses for present equipment or facilities; or a practical solution to a problem it identifies.

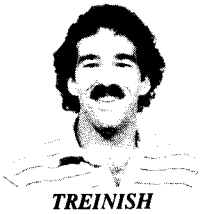
An employee's suggestion, if implemented, makes him or her eligible for the "Suggester of the Year" award. This award is presented to the individual or group whose suggestion has had the most beneficial impact on the Center. This award is presented by the Center director at the annual joint NASA/Goddard awards ceremony.

Has anyone ever said, "Someone should really do something about that" or "Why don't *THEY* do something about that?" Well, here is your chance — write those ideas down and submit them to the Center Employee Suggestion Program. For additional information, contact Jan Tetrick, ESP Coordinator, Code 224, x63094.



NANCE

Farewell to **BOB NANCE,** Code 220, who transferred to NASA Headquarters this month as Chief, Staffing Policy of the Personnel Programs Division. For the past six years, Bob has been responsible for most of the performance management and merit pay-related functions on Center.



TREINISH

LLOYD A. TREINISH of Goddard's National Space Science Data Center (NSSDC), Code 634, and **MICHAEL L. GOUGH,** a Satellite Applications Research employee at the NSSDC, wrote the lead story for the American Geophysical Union's weekly newspaper, *EOS,* recently. The story, entitled "A Software Package for the Data-Independent Management of Multidimensional Data," described a newly-developed software package which supports a data structure called the Common Data Format.

GOUGH

Paddack Partakes in U.S. Space Observance

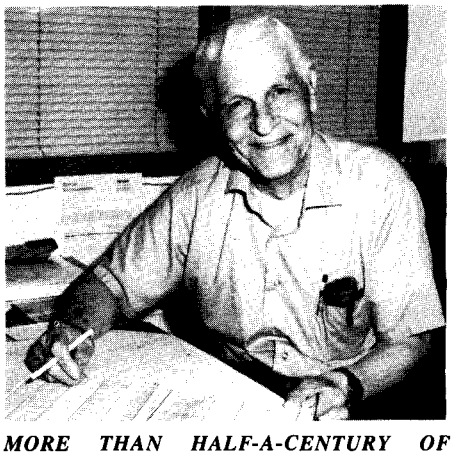
Dr. Stephen Paddack, Chief, Advanced Missions Analysis Office, was a principal speaker at the opening ceremonies for U.S. Space Observance '87 in Salt Lake, City, UT recently. Paddack also presented an American Institute of Aeronautics and Astronautics (AIAA) Student Science Achievement Award to Theran Davis of Brighton High School (BHS) in Salt Lake City. Davis (right) received the award for his outstanding contributions to Brighton's award-winning student shuttle simulator, called 'Starlab,' and for work on a BHS Getaway Special experiment waiting for a shuttle flight.

The Space Agency Branch of the Citizens Bank of Maryland closed its doors this month after 23 years of service to the GSFC community. An open house was held on August 7 to honor past and present bank employees.

Retirees

Farewell and best of luck to the following retirees who left Goddard recently!

	Code	Years
Albin, Frank I.	515.2	22
Coffman, John W.	531.1	31
DiBartolo, Anthony	291	35
Glunt, George E.	752.1	36
Marechek, George M. Jr.	553.1	31
Pierro, Anthony J. Sr.	754.3	34
Stivaletti, Joseph F.	716.1	33
White, George	540	34



***MORE THAN HALF-A-CENTURY OF SERVICE*—Congratulations to John T. Dukes, Code 293, who retires from Wallops this month with 55 years of government service.**

Blood Donors

Following is a list of Goddard donors who were cited by the American Red Cross with gallon pins at the bloodmobile of August 5, 1987:

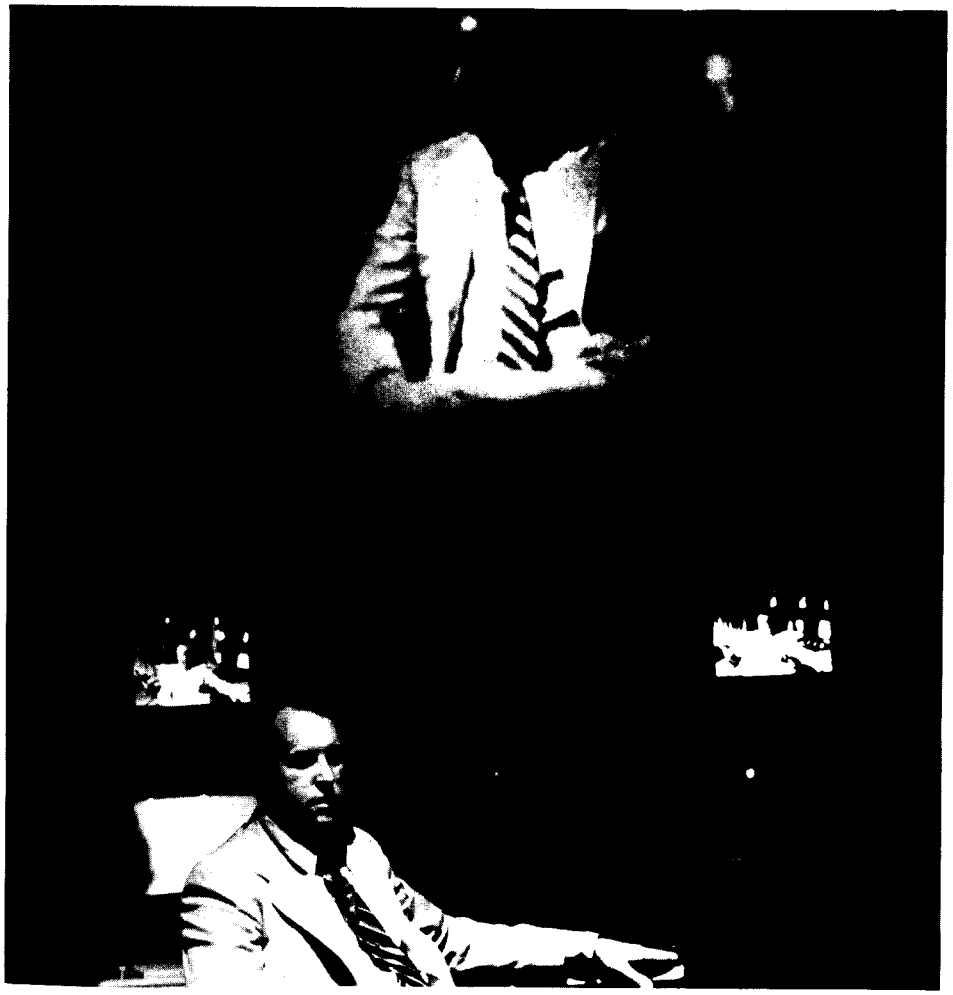
NAME	No. of Gallons
Sandra Biggs	1
Mort Friedman	15
Tom Gostomski	2
David Haykin	6
Linda Kasprzak	1
James McLean	4
Walt Paroby	1
Henry Price	9
Dale Shultz	2
Dick Stonesifer	3
John Tominovich	11
Wariwat Wachrathit	1

All special orders for blood were met! THANK YOU, Goddard, for supporting the urgent need for blood in our community!

The next bloodmobile visit will be on October 7, 1987 from 8:30 a.m. to 1:30 p.m. in Building 8 auditorium.

Goddard Holds Space Telescope Planning Session

by Michael Braukus



VIDEO PROCESSING CONSOLE — **Sitting in front of the video processing console in the Goddard Visitor Center's auditorium, Jeffrey Elliott, Goddard Television, explains the NASA Select TV satellite link-up used to telecast his image on the large screen behind him to public affairs representatives attending a conference on the Hubble Space Telescope.**

Goddard's Office of Public Affairs and the Space Telescope Science Institute co-hosted a two-day conference recently to discuss plans for disseminating news about the Hubble Space Telescope (HST) to the public.

Attending the meeting were public affairs officers from the HST's principal investigators' home organizations which included the California Institute of Technology, University of Colorado, University of Texas and the University of Wisconsin.

Also attending were the telescope's principal investigators and public affairs officials from Ball Aerospace; Lockheed Missiles and Space Company, Inc.; Martin Marietta; Perkin-Elmer Corp.; European Space Agency; Jet Propulsion Laboratory; Marshall Space Flight Center; and NASA Headquarters.

The first day of the conference was spent at Goddard's Visitor Center where the participants reviewed NASA's HST public affairs plan and its various elements, including press release procedures and press room operations.

During the morning session, the group saw a demonstration on the capabilities of the video processing console located in the Visitor Center's auditorium. Throughout the telescope's orbital and scientific verification periods, the Visitor Center will serve as the HST news center.

Resembling a television control room, the console operation will allow media representatives to retrieve images of news conferences and transmit video materials on HST activities. The group also was given a demonstration of the satellite broadcast capabilities of NASA Select television.

The second day of the conference was held at the Space Telescope Science Institute in Baltimore, where the group was briefed on the Institute's role during the telescope's operational period. A tour of the Institute included the photo laboratory and the guide star selection system vault, as well as a demonstration of the Institute's image processing workstation.

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Model rocket demonstrations blast off from the Visitor Center (VC) on Sunday, September 5 and 19 at 1 p.m. For more information about upcoming VC events call x68981.