

“Thank You for Five Wonderful Years!” Dr. Hinners Leaves Goddard

by Randee Exler



CHANGING HANDS—Former Center Director Dr. Noel W. Hinners (right) presents new Center Director Dr. John W. Townsend, Jr. with a model of the Tracking and Data Relay Satellite.

Dr. Noel W. Hinners announced in a special address to Center employees that he had accepted a post at NASA Headquarters as Associate Deputy Administrator (Institution), effective June 22. Dr. Hinners had been the Director of Goddard since June 1982.

New Position

In his new role, Dr. Hinners will assist and, when appropriate, act for the Administrator and Deputy Administrator in the management of institutional matters at NASA.

As part of the NASA recovery from the Challenger accident, NASA Administrator Dr. James C. Fletcher created the position of Associate Deputy Administrator (Institution) to provide a focus on institutional management matters, including determination of requirements and distribution of resources for manpower, facilities and institutional funding at NASA's nine field centers.

“It’s Good to be Back!”

Dr. Townsend Named New Director

by Randee Exler

Goddard's new Center Director, Dr. John W. “Jack” Townsend, Jr., is no stranger to the Center. He was Goddard's Assistant Director, Space Science and Satellite Applications beginning in 1959 and was appointed Deputy Director in 1965.

“It's good to be back,” Dr. Townsend said in a recent interview.

“My priorities are good science, good engineering and integrity,” he said. “You can't have the first two without the third.”

The Last 19 Years

What's he been up to for the last 19 years?

Dr. Townsend left Goddard in 1968 when President Johnson appointed him Deputy Administrator of the Environmental Science Services Administration. Under a reorganization plan in 1970, this Agency became part of the National Oceanic and Atmospheric Administration (NOAA) and Dr. Townsend was appointed Associate Administrator by President Nixon.

Dr. Townsend completed 31 years of federal service in January 1977. Since that time he had been employed by Fairchild Industries, Inc. Before his return to Goddard, Dr. Townsend was Executive Vice

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“Why Me?”

When Dr. Fletcher asked Dr. Hinners to fill this position, Dr. Hinners said that his first response was, “Why me?”

In a letter to all Goddard employees, Dr. Hinners wrote that Dr. Fletcher “. . . wanted to fill the position with someone who has had major Center experience.”

“I have the right background,” Dr. Hinners said.

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The Challenge of Computer Technology

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Hinners

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“When Dr. Fletcher asks you to do a job, it’s hard to say no,” he added.

“This decision didn’t come easy,” Dr. Hinners explained to a packed auditorium in building 8. “Goddard is the best of the NASA Centers, and this is the best job in NASA.”

“You’ve been good to me and for me,” he said. “I’ve gained confidence in your capabilities. I hope I’ve been a good leader.”

Major Accomplishments

Dr. Hinners will be remembered for many Goddard successes. The following is by no means a complete list, but a few accomplishments worth noting: the first Tracking and Data Relay Satellite launch



“I’ve gained confidence in your capabilities. I hope I’ve been a good leader.”

Dr. Noel W. Hinners

and recovery, the Solar Maximum Mission (SMM) spacecraft repair mission and subsequent Presidential visit; the Space Telescope Operations Control Center inauguration; the opening of the Visitor Center’s Hall of Satellites; Goddard’s 25th anniversary activities and the International Cometary Explorer encounter with Comet Giacobini-Zinner.

Dr. Hinners will be remembered also for initiating several projects that will be completed after his tenure. They are, to name a few: the completion and launch of the

Cosmic Background Explorer, the launch and operation of the Hubble Space Telescope, and the completion of the Spacecraft Systems Development and Integration Facility.

Strategic planning, an ongoing process implemented by Dr. Hinners, will continue to shape where we want to be as a Center in the future.

The streets on Center were named at Dr. Hinners’ request. One of the last requests to Center employees is a simple one: “Please do not un-name the streets.”

Townsend

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President for Corporate Development. He has held also the following positions at Fairchild: President, Fairchild Space Company, 1977–1985; Corporate Vice President, 1979–1985; Director, Spacecom, Inc. 1984–1985; Chairman of the Board, American Satellite Company, 1985; Senior Vice President and Group Executive of Aerospace, 1986.

In addition, he has been busy with many hobbies. He is an avid amateur radio operator whose call letters are W3PRB. He also sails the Bay on a 37-foot Tartan named the “Space Cadet” and builds working steam engines.

Dr. Townsend attended Williams College where he received a Bachelor of Arts in 1947, a Master of Arts in 1949, and an Honorary Doctor of Science in Physics in 1961. During World War II he served as an officer in the Army Air Forces for over three years.

He received the Navy’s Meritorious Civilian Service Award in 1957, NASA’s Medal for Outstanding Leadership in 1957, NASA’s Medal for Outstanding Leadership in 1962, the Arthur S. Flemming Award in 1963, and the NASA Distinguished Service Medal in 1971.

Dr. Townsend is a member of the Na-

**ISEE-1 and ISEE-2:
Two NASA Scientific
Spacecraft To Reenter
Over South America**

by Jim Elliott

Two NASA scientific satellites are expected to create two “fireballs” when they reenter the atmosphere only two minutes apart over South America on September 26, officials at Goddard Space Flight Center reported recently.

The satellites—ISEE-1 and ISEE-2—will come down over Brazil, starting to glow at an altitude of about 40 miles and continuing to burn for approximately 10 minutes, according to Osvaldo Cuevas, of Goddard’s Flight Dynamics Facility. Impacts are expected, if they occur, at 2:37 and 2:39 A.M. EDT, respectively. ISEE is the acronym for the International Sun-Earth Explorer.

NASA flight dynamics specialists believe the two spacecraft will burn up in their descent. If fragments do reach Earth, however, ISEE-1 is expected to come down at 7.73 South Latitude and 39.05 West Longitude, an area just north of Triunfo, Brazil and about 210 miles west of Recife, Brazil. ISEE-2’s fragments would be expected to land at 8.03 South Latitude and 39.05 West Longitude, just east of

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“My priorities are good science, good engineering and integrity. You can’t have the first two without the third.”

Dr. John W. Townsend

Federal Career

Dr. Townsend began his federal career at the Naval Research Laboratory in 1949 as a research physicist instrumenting V-2, Viking and Aerobee sounding rockets for upper air research. When NASA was created in 1958, he transferred with his Branch and the Vanguard Project into the new agency, becoming Chief of its Space Sciences Division before coming to Goddard in 1959.

tional Academy of Engineering (and a member of its Finance Committee), and a trustee of the International Academy of Astronautics. He is a fellow of three professional societies, a member of three others, and has published a number of papers and articles. He is currently the chairman of the Space Applications Board, and a member of the Committee on NASA Program Reviews, both of the National Research Council.

Valerie Thomas: The Challenge of Computer Technology

by Rosina Lida Rubin

Editor's Note: The Organization for Equal Education of the Sexes, Inc., Brooklyn, NY included Valerie Thomas, Code 633, in its "Women in Math and Science" educational resource promotion series. The following is Thomas' excerpted biography which was written to accompany a classroom poster:

When Valerie Thomas entered college in the early sixties, she chose to major in physics, then an atypical choice for young women. She selected the field not because of the career opportunities that might follow but because, as she says, "I've always been curious about what makes things tick."

... Thomas remembers no more than one other female physics major in her class at Morgan State University in her hometown of Baltimore, MD. That didn't bother her...

During her senior year... she was offered a position as a mathematician/data analyst at Goddard... She accepted the job.

Writing computer programs was part of her work, and Thomas had never seen a computer... She still considers this experience—entering the new world of high technology—one of the biggest challenges of her career. Gradually, she learned how to write computer programs and, what is more important, she learned how to make them work...

"I love the challenge of having to figure out how to do things," she says. "Some people might easily say, 'It can't be done,' but not at NASA. Here we say, 'What will it take to do it?'... It's a can-do mentality."

... Thomas credits the thrill of solving difficult problems with keeping her at Goddard for over twenty years. Another source of satisfaction is her very high regard for her colleagues. "All of the people are very, very bright," she notes...

One of her favorite assignments was managing the development of image-processing software systems for Landsat... She wrote a document that answered the most frequently asked questions. "It went like hotcakes," she says. Eventually it was distributed all over the world, earning Thomas significant recognition in her field...



DATA ANALYST—Valerie Thomas, Code 633, was recently featured in an educational resource promotion series called "Women in Math and Science."

Seeking a look at "the bigger picture," Thomas moved to NASA Headquarters... in 1975. After a year... she returned to Goddard...

Thomas... moved on to become Deputy Project Manager for the Pilot Land Climate Data System... Instead of developing the system first and then teaching scientists how to use it, the development team relied on scientists' input as they went along.

"Often scientists are not computer experts," Thomas explains. "... Computer people may not know much about scientific needs... Getting people together at the beginning to hash out ideas means less frustration..."

Thomas currently serves NASA in two capacities: Computer Facility Manager for the National Space Science Data Center and Project Manager for the Space Physics Analysis Network (SPAN)...

Throughout her years at NASA, Thomas has continued her education... When she decided to pursue an advanced degree, she chose the Master of Engineering Administration Program at George Washington

University, from which she graduated in 1985... She completed the coursework part-time, while continuing to work and rear her two children.

Despite her hectic schedule, Thomas has found time for other important pursuits... For many years, she has been a member of the National Technical Association (NTA)... The NTA—most of whose members are black—encourages young people to become interested in technical careers. It is a mission central to Valerie Thomas's life...

"If there's one thing I want to do," Thomas says, "It's to help students focus on the things they need to think about and do before college... to help them make choices that will pay off in the long run."

... Thomas remembers back to a time in her childhood when, influenced by science fiction movies, she played space-oriented games, pretending to be "the person in the white coat who stood in front of the space center controls. I didn't know exactly when they did," she says, "but it looked interesting."

Love of the unknown is still holding Valerie Thomas's attention.

Ham Radio Contest at Goddard Visitor Center

by Fandee Exler

The radio waves were "jamming" at the Visitor Center from 2:00 p.m. Saturday, June 25 until 2:00 p.m. Sunday, June 26 when Goddard's Amateur Radio Club (GARC) competed in the 51st Annual American Radio Relay League Field Day Emergency Preparedness Test.

For this particular activity, GARC did not depend on commercially supplied electricity to operate. The club members depended on energy sources such as gasoline

powered generators and solar arrays from spacecraft spare parts.

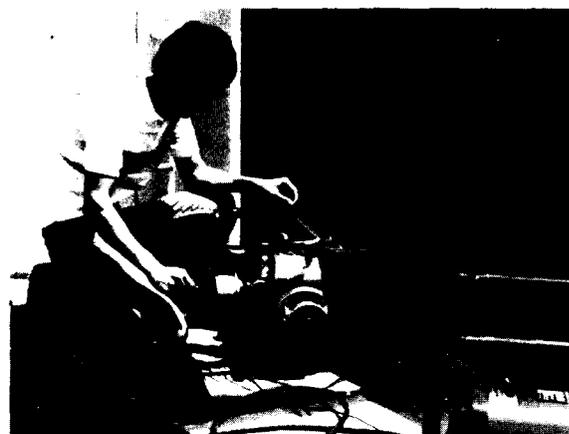
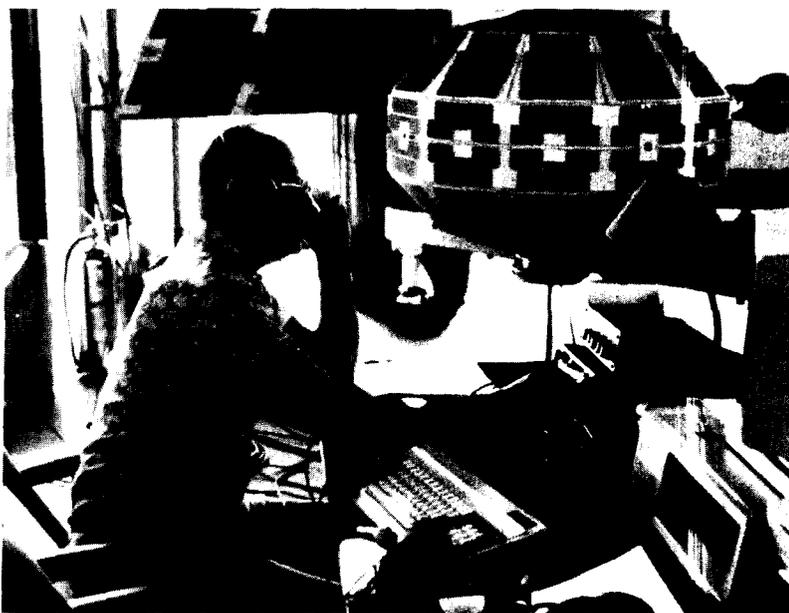
In times of crisis, when normal lines of communications are down, ham operators provide an invaluable public service by reporting conditions and relaying calls for help.

The goal of the competition, which involved ham radio stations in the U.S. and Canada, is to drill amateur operators for such a crisis. During the competition, the

amateur radio operators had 24 hours to contact as many stations as possible.

Hundreds of North American groups tried to "reach out and touch someone." The Goddard club contacted more than 550 different clubs.

Highlights of this year's field day operations included two-way radio communications via amateur radio satellites, and a solar powered radio station.



photos by L. Kilroy

EMERGENCY PREPAREDNESS TEST—Dung Phan (right), KA3RTA, Code 542.2, fine tunes a gasoline generator which was the main source of electricity for Field Day operations at the Visitor Center. Don Bennett (left), WA3MLK, Goddard Retiree, along with the other members of Goddard's Amateur Radio Club contacted more than 550 similar groups across North America from the Hall of Satellites.

NASA Announces Sounding Rocket Campaign in Norway

by Michael Braukus

Goddard officials announced plans to launch four sounding rockets from Andenes, Norway, as part of the Middle Atmosphere Cooperation International Science Program.

The NASA launches are scheduled during the Summer In Northern Europe (SINE) campaign. Their launch window, at the time of this printing, extends from July 6-19, 1987.

"The SINE campaign will study the general middle atmosphere circulation and temperature structure, as well as waves, turbulence and winds in high latitudes during summer solstice conditions," said Jay F. Brown, project manager at Wallops.

"The U.S. experiments are part of a series of 64 meteorological rocket firings and ground-based observations by scientists from 12 countries, including Austria, Canada, Czechoslovakia, Denmark, Finland, France, Norway, Russia, Sweden, United Kingdom, West Germany and the United States," Brown explained.

The four U.S. rockets will carry electron density probe experiments from Utah State University. The principal investigator is Dr. James C. Ulwick.

NASA will use single-stage Super Arcas rockets to carry the probes to an altitude of at least 59 miles (95 kilometers).

"These are high resolution probes that

have the capability of looking at very small scale irregularities of electron density in the polar mesosphere," Ulwick said.

The study of electron density is important because of the problems it causes in communications.

These scientific experiments are part of the overall NASA Sounding Rocket Program which is managed by the Wallops Flight Facility. The program consists of approximately 40-45 sounding rocket launches a year from worldwide locations.

Manufactured by the Atlantic Research Corporation, the solid-propellant Super Arcas with their payloads are 4.5 inches in diameter and 105.5 inches in length.

Summer Aide Employment Program Focuses on Disabled Students

by Michael Braukus

When asked for her opinion about being hired as a summer employee at Goddard, Gina Sciannella's response was spontaneous.

"It's great," she exclaimed.

For Sciannella, who is partially blind, this is the first time she has had a paying job. She is one of eight disabled college students working at Goddard through the Summer Aide Program.

The Summer Aide Program in the past has provided employment assistance to economically disadvantaged women or minorities, but this year the program has focused on the disabled.

"This is the first time that we have run anything for disabled students," said Chris Rodriguez, a Goddard employment opportunity specialist. "This program is a result of our concern about the representation of the Center's affirmative action efforts for the handicapped."

The eight students that are working at Goddard were recruited by Rodriguez, who made visits to colleges and universities in the metropolitan area. "When I interviewed the students at their colleges, I tried to match the students with their career

interests. I also tried to identify mentors here at Goddard," he explained.

Rodriguez believes that the best way to enhance the Center's disabled employment program is to identify potential talent graduating from area schools, give them an opportunity to perform in summer jobs or co-op positions and then try to bring them on board in career appointments.

The program, which lasts 10 weeks, has been running very smoothly. Rodriguez compliments the program's mentors for the program's success. "I have really been impressed by how receptive most of the supervisors were and how they are trying to work with the students," he said.

Rodriguez does not doubt that the program will contribute towards improving the Center's disabled employment statistics. "The whole emphasis of this program is to raise the supervisors' awareness that a person's disability should not get in the way of hiring the best person for the job," he explained.

Sciannella, a junior majoring in industrial psychology at the University of Maryland, Baltimore County Campus, is

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SUMMER AIDES—Eight disabled college students were selected to participate in the Goddard Summer Aide Program. Pictured: (Front row) Peter Ling; Lois McIntyre, Summer Program Coordinator; Loretta Hamell; Gina Sciannella; Won Yoon; (Back row) John Quann, Center Deputy Director; Chris Nicholas; James Johnson; Jon Lee; David Weeks; Chris Rodriguez, Equal Opportunity Specialist; and Dillard Menchan, Equal Employment Opportunity Programs Manager.

Mentors: (not pictured) Jim Elliott, Code 130; Ron Keysey, Code 205.2; Damian Romano, Code 254; Pat Lightfoot, Code 514; Tom Stengle and Vilas Johnston, Code 554.1; Stanley Way, Code 615; Fred Shaffer, Code 631; Joe Nuth, Code 691 and Gary Burgess, Code 694.

STDN TRACKING ANTENNA



Construction workers erect a protective fiberglass radome top, enclosing the recently refurbished S-band tracking antenna at NASA's Ponce DeLeon Inlet Station, FL, a part of Goddard's Space Flight Tracking and Data Network (STDN). This is the primary source of air-to-ground voice and data communications during the second minute of a Space Shuttle launch.

ISEE-1 and ISEE-2

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Afogados da Ingazeira, Brazil which is about 150 miles west of Recife.

Goddard officials believe the two spacecraft will first become visible just west of Floriano.

ISEE-1 and ISEE-2 were launched simultaneously on a single McDonnell Douglas Delta rocket from the Cape Canaveral Air Force Station, FL on October 22, 1977. Purpose of the mission was to have the spacecraft, each with identical instruments, but separated by a variable distance, study fluctuations in plasma waves, the magnetic field, proton and electron density, cosmic rays, gamma ray bursts and the solar wind in the near-Earth environment.

ISEE-1 was a NASA Goddard Space Flight Center-designed spacecraft, built, fabricated and tested at Goddard with all of its components made either at Goddard or supplied by industries or universities.

A consortium of 10 European countries supervised the construction of ISEE-2 under contract to the European Space Agency (ESA). The 10 countries were Belgium, Denmark, France, Germany, Italy, the Netherlands, Spain, Sweden, Switzerland and the United Kingdom. Dornier Systems in Germany led the contractor team.

At reentry, the two spacecraft will have been in orbit almost 10 years, greatly surpassing their designed lifetime of three years. They will make their reentries on their 1,518th orbit, according to Robert O. Wales, ISEE mission manager at Goddard.

1987 SHARP Program Begins

In the fall of 1979, the Director of the Office of Science and Technology Policy in the Executive Office of the President requested Federal Agencies to stimulate an interest in science and engineering among high school students.

NASA responded with the Summer High School Apprenticeship Research Program (SHARP), an eight-week internship program specifically designed to attract and serve under-represented minorities. A key feature is a direct mentor-student relationship through a research apprenticeship.

One hundred twenty-eight students—111 at Greenbelt and 17 at Wallops—have participated in SHARP at Goddard since 1980. All of these students have gone on to college and have graduated from Universities such as Cornell, Brown, Purdue, Princeton, Harvard, Vassar, Boston, George Washington, Yale and the United States Air Force Academy and Naval Academy.

Students selected for SHARP generally have just completed their sophomore or junior year of high school, have done well in their science and math courses, are high achievers, are active in school and in the community, and have been recommended by their teachers as able to benefit from, and contribute to, the SHARP experience.

Student follow-up data completed in

1985 revealed that 82% of SHARP participants have continued with the math and science related fields such as engineering, physics, computer sciences, biology, medicine, and mathematics.

Of the 30 participants this summer—25 at Greenbelt and 5 at Wallops—18 are new to SHARP and 12 are returnees.

The SHARP program at Goddard is managed by the Educational Programs Unit of the Office of Public Affairs.

The 1987 SHARP participants are pictured below. Their mentors are: George Rumney, Jeff Barnes, Code 636; Luis Ramos-Izquier, Code 674; Stanley Way, Code 615; Dr. Peter Wasilewski, Code 691; Richard Hoekensmith, Code 727.1; Gregory Frazier, Code 731.2; Phillip B. Pease, Code 636; Dr. Joseph King, Robert Tice, Steve Peregoy, Code 633; Emmett Chappelle, Code 623; Ashok Jha, Code 630.4; Douglas Ross, Code 728.4; Patrick Hennessy, Code 532.2; Nathan James, Code 633; David Provost, Code 735.2; Lee Foster, Code 633; James C. Smith, Code 674; James Patrick Gary, Code 630.4; Dr. Tom Wilheit, Code 675; Dr. Milton Halem, Code 630; Lee Nearhoof, Code 743.3; George Gerondakis, Code 740.1; Dr. James Strong, Code 636; Robert Patschke, Code 727.2; Dr. Mario Acuna, Code 695.

Employment Program

Continued from page 5

a firm believer in the Summer Aide Program. "It is a terrific way to get disabled people work experience," she said.

Assigned to the Health and Safety Office, Sciannella reports that she was well received by her co-workers and that she is getting along very well. Currently, she is working on the employee census program and doing some research on the work force. Other program participants are working in areas such as astrochemistry, computer services and flight dynamics.

Before interviewing for the summer aide job, Sciannella never thought about working for the government. But now she has a different reaction. "I would like to get my masters degree and come back here to work," she said. "Goddard is a good place. I really like it."

MAD at Wallops: A GSFC First

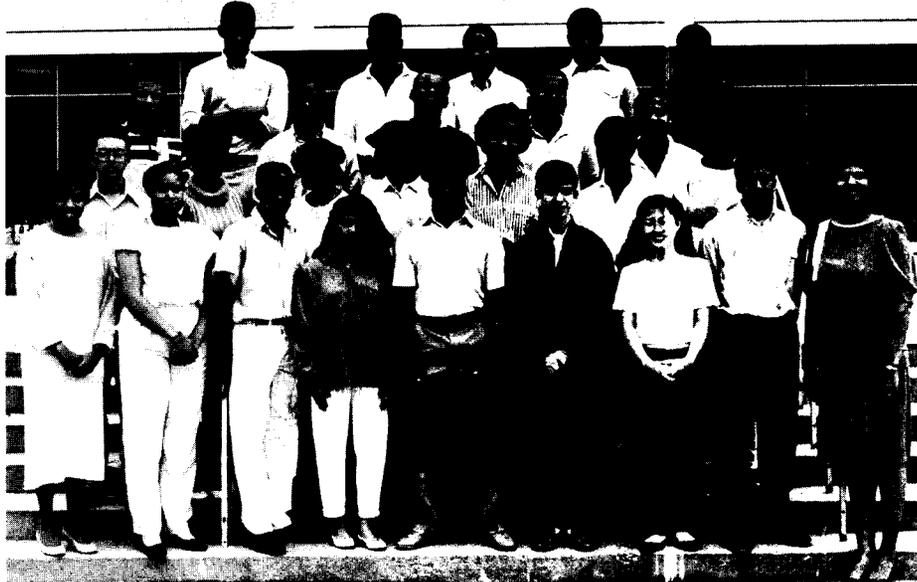
by Marty Davis

"A MAD SAMPLER" was performed at the Wallops Flight Facility on Saturday, June 27 in the Rocket Club to a packed house of more than 100 people. The MAD (Music and Drama Club) company of 50 presented a two-hour show consisting of song, dance, drama, slides, and band, drawn from the 1987 Spring Shows performed at Greenbelt, as well as from previous MAD productions.

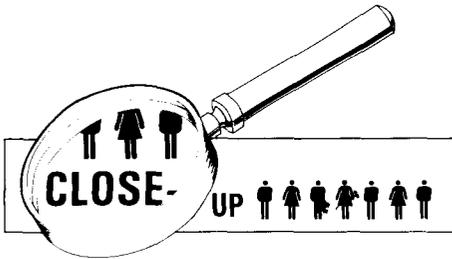
The MAD troupe was made up of civil service and retired civil service employees, on-site contractors, off-site contractors, and guest participants. MAD President Marty Davis, Code 403, produced the show; Gayle Negri (wife of Andy Negri, Code 612) was artistic director; and John Lindsay, Code 401.6, was technical director. Jim Hardin, Code 822.4, was Wallops liaison for the show arrangements.

The show was undertaken with the support of GEWA and WEMA to assist Goddard management in its goal to bring the Greenbelt and Wallops folks closer together.

In addition to the performers, MAD transported all its light and sound equipment, musical instruments, props, set pieces, video, and other accessories to Wallops.



1987 SHARP PARTICIPANTS—Row 1: Mar-jeau Barrett, Kellie Campbell, Todd Baker, Kimberly Williams, Oscar Randy Grant, Gonzalo Granpera, Jennifer Park, George Cordero, Cyn Hadnott-Goster. Row 2: Edwin Dair, Paula Southerland, Deirdre Watkins, Kendra Freeman, Kristin Cordin, Paul Johnson, Michele Gray. Row 3: Malachi Jones, Anthony Hill, Nathaniel Dozier, William Brown, Sean Turner. Row 4: Troy White, Ryan Lloyd, Carl Garrett, Michael Navy, Terrence Taylor. Not Pictured: Lucy Bonerek, Melissa Sheow.



BAKER

Welcome aboard **DR. DANIEL N. BAKER**, the new Chief, Laboratory for Extraterrestrial Physics. Baker served as the Leader of the Space Plasma Physics Group within the Earth and Space Sciences Division of the Los Alamos National Laboratory, NM before joining Goddard on June 18. Baker has a world-wide reputation in magnetospheric physics which is evidenced by his extensive record of publications and invitations to lecture.

* * *

DR. LARRY D. TRAVIS of the Goddard Institute for Space Studies (GISS), has been appointed Associate Chief of the Institute.

* * *



GROUND BREAKING—Former Center Director Dr. Noel W. Hinners (right) presents Goddard's Director of Engineering John W. Boeckel with a small ceremonial shovel at the Spacecraft Systems Development and Integration Facility (SSDIF) ground breaking ceremony on June 10. The SSDIF will contain the world's largest clean room of its type and will be complete in 1989.



MEREDITH

Late Breaking News—Goddard's Associate Director **DR. LESLIE H. MEREDITH** has accepted the position of Director of Research Programs with the American Geophysical Union and will leave Goddard July 31. Meredith was on the original team that came over from the Naval Research Laboratory when Goddard was established in 1958. His tenure was interrupted in 1975 when he served in the London Office of the Office of Naval Research. At Goddard, Meredith has served as Chief of the Laboratory for Space Sciences, Deputy Director of the Space and Earth Sciences Directorate, Director of the Applications Directorate, and Assistant Director of Goddard.



ABSHIRE

DR. JAMES ABSHIRE, formerly of the Advanced Electro-Optical Instrument Section has been appointed Head, Electro-Optical Sensor Systems Section, Instrument Electro-Optics Branch. Dr. Abshire replaces **JACK BUFTON** who was reassigned as Head, Experimental Instrumentation Branch.

* * *

Jim Robinson is back! After a stint at NASA Headquarters, Office of Space Station, **JAMES H. ROBINSON, JR.** returned to Goddard, July 5, as the Assistant Director for Operations, Engineering Directorate. Robinson was Goddard's Associate Director for Institutional Management before joining Headquarters.

Retirees

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

	Code	Years
McKay, Ruth P.	233	24
Studer, Philip A.	716.2	30
Winters, Marjorie	625	35

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.



DRIVER BEWARE—Let this be a stark reminder to those of you who continue to park illegally around the center. You may get more than a ticket.

Goddard Speakers Bureau Awarded



"It's hard to keep this group quiet," former Center Director Dr. Noel W. Hinners said at a special awards ceremony for the members of the Goddard Speakers Bureau. The speakers were recognized for their professionalism, dedication and outstanding support of the Bureau. These volunteers deliver approximately 100 talks a year on a variety of subjects in 11 states and the District of Columbia. Most talks are given on their own time. Dr. Hinners called this group "the real ambassadors of the space agency." **FRONT ROW:** George F. Griffin, Code 754.1; Jeffrey N. Elliott, Bendix Field Engineering Corporation (BFEC); Fred S. Flatow, Code 480; Dr. Malcolm Niedner, Code 684.1; Karen L. Moe, Code 522.2; Joseph H. Rothenberg, Code 510; Dr. William J. Webster, Jr., Code 622; Dr. Jacob I. Trombka, Code 682. **BACK ROW:** U. Joseph

Walters, Code 253.1; Charles P. Boyle, Code 200; Thomas D. Russell, BFEC; Dr. James B. Garvin, Code 622; David E. Manion, BFEC; Robert L. Ball, Jr., Code 503; Dr. Noel W. Hinners, former Center Director; Dr. Michael Mumma, Code 693; Vincent Gigliotti, Code 411. **NOT PICTURED:** Frank J. Cepollina, Code 408; Donald S. Friedman, Code 702; Dr. Stephen P. Marant, Code 680; Dr. John C. Mather, Code 685.2; David R. Skillman, Code 400.2; Dr. Gerald A. Soffen, Code 600; William N. Stewart, Code 408; Valerie L. Thomas, Code 633; Dr. David J. Thompson, Code 622. The Goddard Speakers Bureau is managed by the Office of Public Affairs. For more information, or if you are interested in participating in the Speaker's Bureau, call Darlene Ahalt at X68101.

Goddard Sponsors Two Students for Space Camp

Goddard sent two area students to camp—not for campfires nor ballads, but countdowns and simulations.

The students, Hanna Yu, Greenbelt Middle School, Greenbelt, MD and Kanti Ford, Dunbar High School, Washington, DC, competed in art and mathematics contests for an all-expense paid week at the United States Space Camp, Huntsville, AL.

Goddard's sponsorship was designed to stimulate young people to think about their role in the future of the Nation's space program, according to Dillard Menchan, Goddard's Equal Employment Opportunity Programs Manager.

"We think events of this type promote the human side of high technology and underscore the important role that people, particularly young people, play in the development and progress of high technology in the fast-moving world we live in today," Menchan explained.

"We think our sponsorship helped to create a warmer relationship with young people who are interested in the space program and helped to cultivate that interest into something that will benefit both the individuals and the Nation."

The students' expenses were paid for with money that Goddard received for winning NASA's Equal Opportunity Award for 1986.

NASA
National Aeronautics and
Space Administration
Goddard Space Flight Center

Goddard News

SECOND WHITE SANDS GROUND STATION



This is an artist's concept of the second Tracking and Relay Satellite System (TDRSS) ground station planned for White Sands, NM. Construction on the facility, expected to cost \$18.5 million, will start sometime this summer with completion expected in July 1989, according to project officials. The other ground station at White Sands has conducted operations since the launch of the first Tracking and Data Relay Satellite in 1983. Station Manager is Virgil True.

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