



Robert E. Smylie

## Smylie to head NASA's tracking, data functions

Robert E. Smylie, Goddard Deputy Director, has been named Associate Administrator for Space Tracking and Data Systems at NASA Headquarters effective April 20.

In his new position, Smylie will be responsible for planning, development and operation of global tracking networks, facilities and systems for communications and data acquisition and processing for all NASA space flight programs.

Smylie became Deputy Director of Goddard in December 1976 and was Acting Director June 1979 to February 1980.

Prior to that he was Acting Associate Administrator for Aeronautics and Space Technology at NASA Headquarters, July-December 1976, and Deputy Associate Administrator for Aeronautics and Space Technology from October 1973 to July 1976.

He has received the NASA Exceptional Service Medal, and the Victor Prather Award as well as various Johnson Center awards. He is an Associate Fellow of the American Institute of Aeronautics and Astronautics and a Fellow of the American Astronautical Society.

## *E.R.B.E. launch scheduled for 1983*

## NASA selects 33 investigators for climate, atmosphere study

NASA has selected 33 scientific investigators for a Goddard managed project of climate and upper atmospheric research using four satellite missions during 1982 through 1985.

The investigators, 23 from the U.S. and 10 from six foreign nations, will support the development of instruments for three experiments: The Earth Radiation Budget Experiment, the Stratospheric Aerosol and Gas Experiment II, and the Halogen Occultation Experiment.

All three experiments will fly aboard the Earth Radiation Budget Satellite, a free-flyer to be carried into medium inclination orbit by the Space Shuttle for a two year mission beginning in 1983.

The Earth Radiation Budget Experiment and the Stratospheric Aerosol and Gas Experiment II will investigate the spatial and temporal variations of the radiation budget and stratospheric aerosols respectively. The Stratospheric Aerosol and Gas Experiment II and Halogen Occultation Experiments will each investigate ozone variability and the latter will focus on the effect of halogens on the ozone along with other upper atmospheric constituents and physical processes.

Identical Earth Radiation Budget Experiment instruments will be flown on two near-polar orbiting, Sun-synchronous National Oceanic and Atmospheric Administration operational meteorological satellites for two-year missions to complement the data coverage of the Earth Radiation Budget Satellite mission. The Halogen Occultation Experiments will be flown initially on a seven-day Spacelab 3 mission scheduled for late 1982.

Each of the participating countries will be responsible for funding its own investigations and its participation in support of instrument development. Costs

of the U.S. investigations are expected to total about \$55 million over the next five years, including NASA-developed instruments.

Science activities will be managed by the NASA Langley Research Center, Hampton, Va., while the overall project, including satellite development, will be managed by Goddard. Project Manager for the effort is Carl Wagner, and Project Scientist is Dr. Robert Curran.

## Dr. Frosch endorses new EEO guidelines

NASA Administrator Dr. Robert Frosch has declared his full support for new affirmative action guidelines proposed by the Equal Employment Opportunity Commission for federal agencies in 1980.

The guidelines initiate two major shifts of emphasis in federal efforts to eliminate underrepresentation of minorities and women in the government workforce: individual agency reports to the President and to Congress on progress and accomplishments, and new emphasis on result oriented actions. They require:

- comprehensive workforce analysis, emphasizing self-assessment by each agency of the degree of dispersion of minorities and women throughout its work force.
- identification of those populous occupations in which minorities and women are underrepresented.
- the setting of hiring goals for minorities and women in those occupations in which they are underrepresented.
- examination of selection procedures to determine if they have an adverse

*Continued on page two*

## Interagency women meet at Goddard to build network

by Brenda Savage

Center Director A. Thomas Young welcomed the Interagency Subcommittee of Women in Science and Engineering to Goddard March 14, as the committee held a dinner meeting here to further efforts toward establishing a network of women scientists and engineers in the federal government.

Dr. Harriett Jenkins, NASA's Assistant Administrator for the Office of Equal Opportunity Programs, joined Mr. Young in welcoming meeting members, who were Goddard employees and representatives from many of the leading local women's organizations.

The Subcommittee on Women in Science and Engineering, which reports to the Federal Women's Program (FWP), is concerned with increasing the number of women in science and engineering through recruitment and community outreach. It also is working to expand career opportunities and provide skills update.

Young addressed some of these concerns in his welcome address. "People perform well because they have a positive job environment, and are afforded an opportunity to develop their career," he said. "I personally and strongly support the purpose of the Subcommittee."

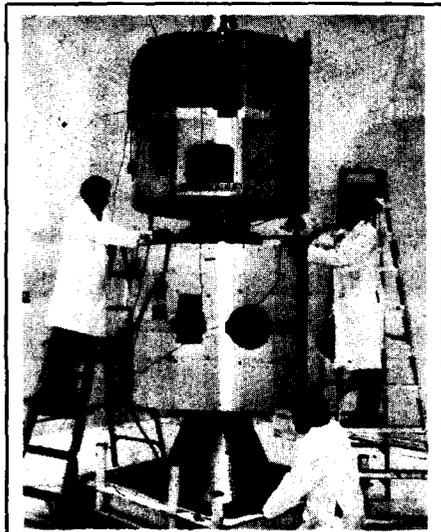
A group leader led discussions at each dinner table to cover one of the following topics: job assignment, career enhancement, civil service reform, the double burden, management development, recognition, personal professional development,

## Dr. Frosch endorses new guidelines

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impact on employment opportunities of a race, sex, or national origin group.

"The Fiscal Year 1980 transition Affirmative Action Program Plan," says Dr. Frosch, "has my official and personal endorsement. NASA's goal is the elimination of discrimination in employment and in the utilization and development of human skills in all activities, in all organizational segments, in all occupations, and at all levels. Every manager and supervisor is expected to take special affirma-



**Piggyback satellites** — Stacked one on top of the other, a pair of satellites called "Dynamics Explorer" (DE) recently completed structural vibration tests at Goddard. Dynamics Explorer B (top) and A (bottom) are being built for NASA by RCA Astro-Electronics, Princeton, N. J. They will be launched atop a Delta rocket in 1981 for a study of the interaction of the magnetosphere, ionosphere and plasmasphere which compose a boundary region between earth and space. DE-A will have a perigee (low altitude) of 683 km. and DE-B a perigee of 305 km. Satellite A will have an apogee (high altitude) of 24,875 km. and B, 1,300 km. Project Scientist for the study is Dr. Robert Hoffman, and Project Manager is George Hogan.

career change, sexual harassment, and networking. Each table then presented a summary report of the problems associated with their particular topic and recommended possible solutions to the assembly at large.

Quarterly meetings of the subcommittee are rotated among federal agencies.

tive action towards achieving this goal. Accountability for achieving goals shares equal importance with all other Agency goals, and management's performance will be evaluated in terms of these as well as other major Agency goals."

The Equal Employment Opportunity Commission has designated FY 80 a transition year for agencies to develop the mechanisms and resources necessary for effective affirmative action planning and implementation of new multiyear plans beginning in 1981.

## NASA clarifies US/ USSR exchange

Kenneth S. Pedersen, Director of NASA's International Affairs Office recently issued this clarification of NASA policy on U.S. U.S.S.R. exchange activities:

As you know, the President has cut back on U.S.-U.S.S.R. exchange activities as part of the U.S. response to Soviet activities in Afghanistan. What effect this may have on NASA's activities is not yet clear and decisions are being made on a case-by-case basis in consultation with the State Department.

Existing NASA guidelines require that contacts with Soviets be carefully coordinated with the International Affairs Division. We continue to find instances of NASA employees attempting to mail materials directly to the U.S.S.R.—these must be submitted to the International Affairs Division for approval and transmittal through the proper channels. There are also cases in which the required report is not prepared after an official trip to the U.S.S.R. or other substantive contact with Soviets.

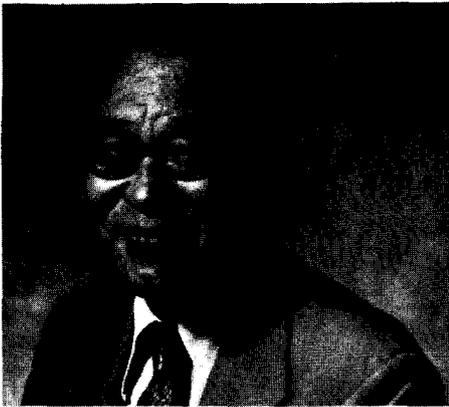
During this sensitive period, it is especially important that all NASA contacts with the U.S.S.R. be fully coordinated in advance with the International Affairs Division, particularly since U.S. policy could change rapidly in the current political climate. We will keep you informed of any major changes in the situation. Questions or press inquiries on these matters should be directed to Dr. Edward Ifft of the International Affairs Office.

## Shuttle engine passes first full power test

The first full power level test (at 109 percent of the rated power level) of the Space Shuttle main engine was successfully conducted March 13, a significant milestone in the development of the engine and a major step towards certification of the engine for full power level abort capability.

The total test time was 125 seconds with 10 seconds at full power level and a total of 26 seconds above 100 percent rated power level. The test was conducted at NASA's National Space Technology Laboratories in Mississippi.

## People



Andrew R. Chi

### Andrew Chi receives CESASC award

Andrew R. Chi is among five scientists and engineers nationwide who last month received an Achievement Award from the Chinese Engineer and Scientists Association of Southern California (CESASC) in Los Angeles.

Chi, a senior staff engineer of the Networks Engineering Division, received the award for his contribution to International Standards of Frequency and Time Measurement.

CESASC is an organization working to enhance the professional and social esteem of engineering and scientific professionals in general, and of those of Chinese ancestry in particular. Dr. Chen Ning Yang, recipient of the 1957 Nobel Prize in physics, gave the keynote address for CESASC's annual award ceremony and convention.

### Coming & Going

#### New Employees

Cooper, Wayne A., Student Aid (Gen) (Code 753.1), 3-3-80.  
 Keaney, Diane M., Secretary (Typing) (Code 933), 3-9-80.  
 Davis, Beverly, Clerk-Typist (Code 930), 3-9-80.  
 Moore, Darleyne B., Clerk-Typist (Code 225), 3-9-80.  
 Stavely, Richard A., Aerospace Engineer (Code 732.3), 3-9-80.  
 Powell, Darryl V., Electronics Engineer (Code 733.1), 3-9-80.  
 Stewart, Kenneth P. II., Physicist (Code 717.1), 3-9-80.

### Don't forget National Secretaries' Week

"Women on the Move — Career, Self and Family" will be Goddard's theme this year for National Secretaries Week, to be observed the week of April 21-25.

Interested persons can enjoy a moderately priced buffet breakfast at the Abbey, on April 21. Dr. Zandy Leibowitz will be the guest speaker for the occasion.

Highlight of the week is the Annual Cash Awards Luncheon for secretaries/clericals which will be held at the Goddard Recreation Center. Award plaques and \$150 in cash will be presented to those persons who have shown superior accomplishment meeting such criteria as a one-time exceptional performance not covered in their basic job descriptions, or superior job performance covering at least a six-month period.

Ault, Arthur B., Employee Development Specialist (Code 224), 3-9-80.  
 Lauden, Marian B., Contract Specialist (Code 246), 3-9-80.  
 Weiland, Michael L., Student Trainee (General) (Code 226/260), 3-9-80.  
 Jones, Cindy L., Contract Specialist (Code 267), 3-9-80.  
 Thomas, Debbie, Clerk-Typist (Code 232.2), 3-9-80.  
 Storm, Carol A., Secretary (Steno) (Code 408), 3-9-80.  
 Brown, Elaine S., Clerk-Typist (Code 680), 3-9-80.  
 Pope, Karen S., Clerk-Typist (Code 400), 3-9-80.  
 Bracey, Evelyn E., Clerk-Typist (Code 200), 3-9-80.  
 Wilmer, Karen, Clerk-Typist (Code 260), 3-9-80.  
 Nichols, Joe P., Supervisor Computer Specialist (Code 206.1), 3-9-80.  
 Stambach, Carol A., Contract Specialist (Code 260), 3-9-80.  
 Dovel, Jennifer L., Clerk-Typist (Code 220), 3-16-80.  
 Hamilton, Diane C., Secretary (Code 912), 3-16-80.  
 Lessner, Jeffrey Grant, Electronics Engineer (Code 723.2), 3-16-80.  
 Unger, Arthur M., Electronics Engineer (Code 733.1), 3-16-80.  
 Wilmer, Karen, Clerk-Typist (Code 267), 3-16-80.  
 Wolfe, John E., Engineering Aid (Code 751.1), 3-16-80.  
 Bishop, Ronda P., Accounting Tech. (Code 212), 3-23-80.  
 Breen, William B., Electrician (Code 291.2), 3-23-80.  
 Burns, Mark T., Contract Specialist (Code 268), 3-23-80.  
 Cantor, Susan L., Contract Specialist (Code 266), 3-23-80.  
 Catarineau, Sonia D., Equal Opportunity Specialist (Code 120), 3-23-80.  
 Clark, Deborah, Contract Specialist (Code 246), 3-23-80.  
 Donnelly, Susan T., Clerk-Typist (Code 253.1), 3-23-80.

### Measuring made easy?

*This reflection on our changing ways of measuring things was submitted to the Lewis News by Bert Rostafinski of the Fluid Mechanics and Acoustics Division (Lewis).*

For our personal well-being and safety, and with due regard for the national energy conservation program, it would be worthwhile to remember at least the following few values:

In view of the need to conserve fuels, the President decided that the thermostats in federal buildings must be set at 18.3°C in winter and at 25.5°C in summer. When the temperature outside reaches 15°C, it is rather safe to be out without an over-coat or even a raincoat.

With regard to our health, we should watch our diet and exercise to maintain our weight within reasonable bounds. For women, some 580 newtons (N) is considered fine; for a man 183 cm tall, about 800 N is just right. Someone weighing 1100 N must consider his eating habits and certainly go on a diet.

Finally, for cars, there is nothing as bad as underinflated tires. Remember that 140 kilopascals (kPa) is too low a pressure. A reasonable pressure range is from 190 to 210 kPa.

Frost, Robert J., Contract Specialist (Code 269), 3-23-80.  
 Goldbach, David J., Cost Accountant (Code 280.5), 3-23-80.  
 Graham, Longena R., Clerk-Typist (Code 212), 3-23-80.  
 Gray, Kathleen M., Engineering Aid (Code 751.1), 3-23-80.

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## Brown alumni tour Goddard, explore space frontiers

The Continuing College of Brown University, Rhode Island, invited University alumni and their families to Goddard March 8 to "experience firsthand the technology and romance of the American space effort."

NASA Associate Administrator Dr. Thomas A. Mutch, who is currently on leave from Brown where he is professor of geological sciences, hosted the visit.

Dr. Mutch reviewed for the group the results of over two decades of NASA missions to neighboring worlds, and considered future directions in planetary exploration as well as other frontiers of space application and study.

Introducing an ongoing science mission, Dr. Robert Chapman, Associate Chief of Goddard's Laboratory for Astronomy and Solar Physics, discussed the work of the International Ultraviolet Explorer (IUE) satellite, which is supplying data for over 135 experiments by scientists all over the world.

Dr. Carl Fichtel, Senior Scientist in Goddard's Laboratory for High Energy Astrophysics, discussed with the group the newest use of satellites to address questions in astronomy and astrophysics at the extremes of detectable high energy—the Gamma Ray Observatory (GRO), a new start at Goddard in 1981.

Considering applications of satellites to advancing our knowledge of our own planet as well as the stars, Dr. William Rainey, NASA Associate Deputy Administrator for Applications, and Locke Stuart of Goddard's Missions Utilization



Employees at the NASA Spaceflight Tracking and Data Network (STDN) station at Guam have been awarded the quarterly "Outstanding Performance Award" by the Bendix Field Engineering Corporation's STDN Program Management, Columbia, Md. The award was presented to the station at Guam by Lawrence A. Jochen, Bendix vice president and STDN program director. This is the second quarterly award received by the Guam station employees. The previous "Outstanding Performance Award" was earned for the quarter ending September 1978.

Participating in the Guam station award presentation are Lawrence A. Jochen (center, presenting award); Francis N. Bowen, Guam senior manager (left, accepting award); and George J. Karras, NASA station director (right).

Office, reviewed the use of space for monitoring earth resources and weather, for advancing communications, and for future materials processing.

Visiting Goddard's Operations Control Center in Building 14, the Brown University alumni viewed communications and computer areas supporting NASA's worldwide tracking and data acquisition network for low-orbit satellites. The group also toured the Building 21 Science Center of the International Ultraviolet Explorer (IUE) mission, as well as Goddard's "clean rooms" in Buildings 7, 10 and 15 where satellite payloads are integrated and tested.

## New Employees

Continued from page three

- Gregory, Helen J., Accounting Assistant (Code 212), 3-23-80.
- Gritt, George B., Aerospace Engineer (Code 312), 3-23-80.
- Herman, Diane L., Personnel Staff Spec. (Code 225), 3-23-80.
- Johnson, Cecelia, Accountant (Code 267), 3-23-80.
- Kelley, Helen, Purch. Agt. (Code 232.1), 3-23-80.
- Mingarelli, Maureen, Stu. Tr. (Code 226/572), 3-23-80.
- Nelson, William E., Qual. Assur. Spec. (Code 312), 3-23-80.
- Powers, Bennie N., Accountant (Code 212), 3-23-80.
- Robinson, Ethel C., Operating Accountant (Code 212), 3-23-80.
- Shifflett, Mary K., Business Supt. Spec. (Code 267), 3-23-80.
- Short, David Allen, Meteorologist (Code 915), 3-23-80.
- Smith, Kevin M., Contract Specialist (Code 267), 3-23-80.

## Retirements

March

- Goss, Robert A. 740.2
- Pessagno, James J. 292.2

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