



## ERL Hosts Communications Conference

The ESSA Research Laboratories hosted the fifth annual International Conference on Communications (ICC) at Boulder, Colo., June 9-11. The theme of the conference, sponsored by the Institute of Electrical and Electronics Engineers' Communication Technology Group, was "Communications Needs for the Next Decade." The technical program consisted of about 260 papers, including 40 papers from authors outside of the United States, in 46 technical sessions from nine participating IEEE groups. ESSA scientists serving on committees or presenting papers included: Richard C. Kirby, Director, Institute for Telecommunication Sciences; William F. Utlaut, Martin Nesenbergs, Roger K. Salaman, Thijs de Haas, Dale N. Hatfield, Leo J. Maloney, Dorene P. Briels, Vernon J. Zurick, Robert W. Hubbard, James R. Wait, William L. Taylor, Harold M. Burdick, L. W. Eichacker, J. C. Straiton, Louis A. Rose, Kenneth R. Cook, Jerome E. Partch, Richard G. FitzGerrell, Robert J. Matheson, Clark C. Watterson, John R. Juroshek, William D. Bensema, Robert Kirby, Kenneth Davies, Mark T. Ma, and Lillie C. Walters.

## McARTHUR Officer and Crew Cited By Coast Survey Director

Rear Admiral Don A. Jones, Coast Survey Director, has praised the USC&GS Ship McARTHUR and its commanding officer, Cdr. Ronald L. Newsom, for a successful Hawaiian assignment. The Director complimented Cdr. Newsom for "the fine spirit and cooperation you have instilled in your officers and crew, often under very difficult and trying conditions." The ship was recently transferred from Honolulu to the Pacific Marine Center in Seattle.

## Sakamoto Appointed to University Post

Dr. Clarence A. Sakamoto, Nevada State Climatologist, has received an adjunct appointment as Assistant Professor of Bioclimatology in the Department of Plant, Soil and Water Science, College of Agriculture, University of Nevada.

## Olson Briefs Soaring Contestants

Leonard T. Olson, Weather Bureau Quality Control Officer, presented special soaring forecasts to the contestants at the Elmira, Harris Hill Regional Soaring Meet, May 30 - June 1.

## Poor To Head Officer Training Section



Commander George M. Poor, former chief of the Pacific Marine Center's Processing Division, Seattle, Wash., has been appointed officer in charge of the ESSA Commissioned Officer Training Section in Norfolk, Va. Cdr. Poor succeeds Lt. Cdr. Charles H. Nixon.

## Galveston Weathermen Spread the Word

Chief Meteorologist Davis Benton and the six-man staff of the Galveston Weather Bureau office held severe weather preparedness planning conferences in 26 towns and cities in their area of county warning responsibility prior to the 1969 hurricane season.

## Rhode Island Survey Begins

A 17-man team of surveyors will begin a three-month statewide geodetic survey of major highways in Rhode Island on June 23. The state network will include the cities of Westerly, Newport, Portsmouth, Bristol, Warwick, Cranston, Providence, and Woonsocket.

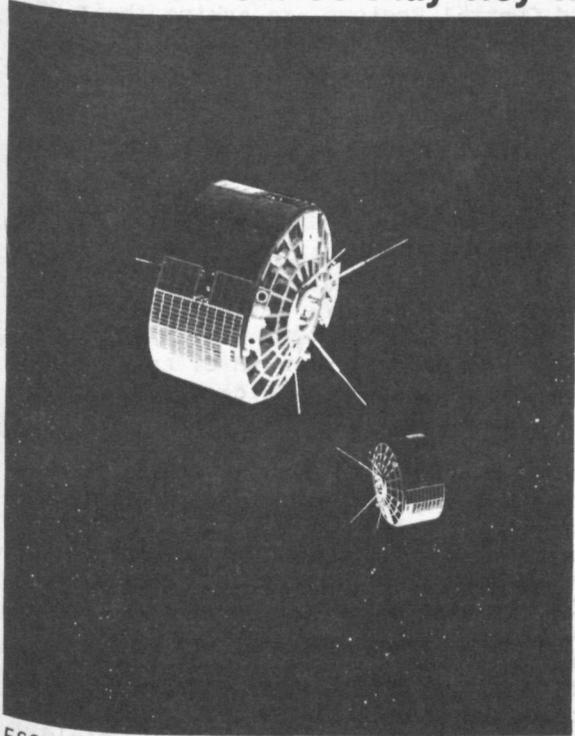
## Weinstock To Spend Year in Israel

Dr. Jerome Weinstock of ERL's Aeronomy Laboratory will spend a year in Israel working in the Department of Environmental Sciences at the University of Tel Aviv, beginning June 4. Dr. Weinstock will also lecture at the university and at the Weizmann Institute in Rehovoth on the theory of turbulence in ionized gases. He received his Ph.D. in theoretical chemical physics from Cornell University in 1959. From 1959-61, he did postgraduate work in theoretical physics as a National Research Council Fellow in Washington, D. C. Dr. Weinstock joined the Department of Commerce in 1962 and has received Commerce awards for outstanding papers published in various scientific journals.

## Eastern Region Selects EEO Counselor

Gerald L. Shak, Eastern Region User Services Representative, has been designated the Department of Commerce Equal Employment Opportunity Counselor for N.Y., Conn., R. I., and Mass.

## Weather Satellites Play Key Role in BOMEX Project



ESSA Weather Satellites

A variety of satellites are providing saturation coverage over the area where the Barbados Oceanographic and Meteorological Experiment scientists are seeking to fill fundamental gaps in knowledge of the mechanisms of sea-air interaction.

BOMEX has at its disposal a formidable array of spacecraft. ESSA 8 provides mid-morning photographs over the area; NASA's Nimbus III sends pictures around noon and midnight; ESSA 2 provides a late afternoon picture; NASA's Advanced Technology Satellite III takes photos at approximately 20-minute intervals between sunrise and sunset from a 22,000-mile altitude; and a mosaic of ESSA 9 pictures is transmitted daily via ATS satellite from the National Environmental Satellite Center.

When BOMEX ends July 28, a tremendous store of photographs and measurements will have been amassed to compare with data from such observing tools as radar, radiosondes, dropsondes, and aircraft.

The presence of small, sudden rainstorms within the BOMEX array is of considerable concern to BOMEX scientists. Given only conventional observing tools, many such storms can go undetected in such a large space. Satellite data, in addition to numerous other aids, is being used to help find and track these elusive showers.

The Nimbus III midnight product provides infrared cloud-top temperature data which, in clear areas, extends to the sea surface. This is important because it may reveal the complicated temperature structure of the area. In addition, Nimbus' infrared spectrometers will take vertical temperature soundings which will be compared to numerous balloon and drop-soundings made in the array from ships and aircraft.

Satellite photos of cloud motion will be used to get wind information and to compare it with that received from ship measurements. Reflected sunlight, captured by satellite pictures, will provide information about changes in the sea state and possibly on surface winds. One of the most advanced uses of satellite information will be called into action late in the experiment, when satellite photos will be used to help planners make immediate decisions on whether, when, and where to direct aircraft toward unknown weather systems off the African coast.

Another major undertaking is a radiation experiment in which scientists hope to learn from radiation data provided by BOMEX aircraft to what degree satellite pictures contain specific shortwave and infrared information and, when a relationship is established, to determine its application to weather forecasting. Clouds are primarily responsible for changes in the amount of radiation absorbed, emitted, and reflected by the tropical atmosphere. Satellite photos of these clouds are expected to provide clues to these radiative changes.

The BOMEX satellite program is directed by Dr. Stephen K. Cox of the University of Wisconsin's Space Science and Engineering Center.

## Ngotel Completes Management Training



Tadao Ngotel, supervisory meteorological technician in the Weather Bureau's Pacific Region, recently completed nine months of study in management and supervision courses at the the University of Hawaii and administrative training in the Pacific Region headquarters. Mr. Ngotel is the first recipient of the Micronesian Management Scholarship, under a program sponsored jointly by the Weather Bureau and the University of Hawaii East-West Center. The program is designed to help prepare Micronesian observers to replace American officials in charge of weather stations in the Trust Territory. Another Micronesian management trainee will be selected to begin a similar course in the fall. In photo above, P. H. Kutschenreuter, Pacific Region Director (right), awards Mr. Ngotel a 15-year length-of-service pin.

## ERL Scientists Awarded Patents for Inventions

Dr. M. C. Thompson, Jr., and L. E. Wood, members of the Tropospheric Radio Physics Group of the Institute for Telecommunication Sciences, recently received patents for two inventions. One combines radio and optical techniques to measure the effects of atmospheric water vapor on the propagation of electromagnetic signals. The other describes an improved optical distance measuring method. The patents are the first and second for Mr. Wood and the seventh and eighth for Dr. Thompson.

## Tuning in on Tornadoes

The Weather Bureau Eastern, Southern, and Central Regions are asking their employees to help test the Weller method of detecting tornadoes, using home television sets. The method consists of adjusting the brightness control to black on Channel 13 and then monitoring Channel 2. Lightning shows on the set as a flash; a nearby tornado as a glow.

## Service Awards

The following Weather Bureau Central Region employees are eligible to receive length-of-service awards during June: 30 years - Richard C. Lyle, CRH; Virgil F. Hendricks, Chicago, Ill.; and John S. Hill, Kansas City, Mo. 25 years - George M. Wendell, Detroit, Mich.; Jack B. Hughes, Dodge City, Kans.; Vinton R. Bouslough, Minneapolis, Minn.; and Roy L. Meaux, Jr., CRH. 20 years - Billy R. Curry, Kansas City, Mo.

Mid-Continent Field Area, C&GS employees eligible for June awards are: 30 years - Russell W. Humphrey, Triangulation Party G-23, Kansas City, Mo. 25 years - Verl L. Sullivan, Triangulation Party G-38, Kansas City, Mo.; and J. F. Knaresborough, New Orleans Field Office.



Four employees of Coast Survey Field Party G-16, stationed in Honolulu, received length-of-service awards on June 6. (Left to right): Gerald D. Banks and William M. Cook, 15 years. Vincent B. Stapleton, 20 years, and Gerald A. Jahn, 25 years.

Items to be considered for ESSA NEWS must be received by Monday for publication the following Friday. Send material to: Office of Public Information, ESSA, Room 804, Bldg. 5, Rockville, Md. 20852. Phone (301) 496-8243.

# **National Oceanic and Atmospheric Administration**

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