

The Monmouth Message

100 Years
Of Progress
In Communications

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VOLUME 10, Number 35 Published in the Interest of Personnel at Fort Monmouth, New Jersey THURSDAY, APRIL 7, 1960 FIVE CENTS PER COPY

Tiros 1 Shot 'Only The Beginning' For Laboratory

Signal Board To Sit Here

Formal Meeting Being Planned For 13, 14 April
FORT MONMOUTH — The U. S. Army Signal Board, under the direction of Maj. Gen. William D. Hamlin, President of the Board and Commanding General, Fort Monmouth, will convene in a formal board setting here on 13 and 14 April. At this meeting, the Board members will deliberate on major issues confronting the Chief of Staff in the fields of communications, electronics, satellites and satellites, and other subjects, prior to submitting recommendations to him. The U. S. Army Signal Board is an agency of the Chief of Staff and serves him in an advisory capacity on broad issues dealing with the improvement of overall Signal capability in performance of the signal mission. The Board is composed of permanent members including the president, deputy president, and eight senior field commanders of the Signal Corps.



NOW MAJ. GEN. HAMLIN—Maj. Gen. Ralph T. Nelson, Chief Signal Officer, Department of the Army, and Mrs. William D. Hamlin pin second stars on Maj. Gen. Hamlin, commanding general, Fort Monmouth, at informal ceremony. Gen. Hamlin, who assumed command of Fort Monmouth early in March, was formerly Commandant of the Army Signal School. He recently returned from overseas where he served as Signal Officer, U. S. Army Europe for three years. (USASPubA Photo by Ruane.)

Signal Pilots Fly Photos To NASA

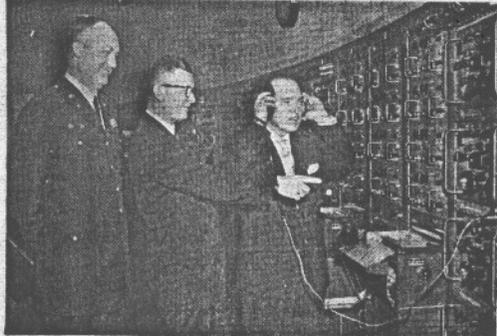
WASHINGTON — Two U. S. Army Signal Corps pilots flew the first pictures taken by TIROS, the National Aeronautics and Space Administration television weather satellite, from Fort Monmouth, the eastern U. S. tracking station to NASA's Washington headquarters.

The special air courier system provided by the Army Signal Corps was arranged to insure rapid delivery of the first photos received from TIROS. A facsimile system is also in operation to transmit photos to NASA.

Captain Lloyd J. Petty and Captain Robert C. Jones, U. S. Army Signal Corps senior aviators, flew an L-20 from Fort Monmouth County Airport to Bolling AFB, Washington. Both served in combat together in Korea and both live in Alexandria, Va. Both also are World War II veterans.

Use Helicopter
The photos were flown from the tracking station to the Monmouth airport in an H-19 helicopter, by Capt. William M. Templeton, also a U. S. Army Signal Corps pilot.

Captain Petty, the pilot, who lives at 1009 North Pegasus Street, Alexandria, with his wife and three children, has been flying for seven years. A graduate of Southwest Texas State College, he has also attended enlisted photographers school. Officers Candidate School at Fort Benning, Signal Corps schools at Fort Monmouth and he has 2000 hours in fixed wing and helicopters. Capt. Petty is chief of the Ground Based System Section, Aviation Branch, Signal Corps. He and Capt. Jones served in the First Cavalry Division and



LISTENS TO TIROS—Rep. Victor L. Anfuso (D-NY) listens to the tracking signal from Tiros 1 as the weather observation satellite is monitored at the Deol Astro-Observation Center of the U. S. Army Signal R&D Laboratory. With Mr. Anfuso are Col. Harold McD. Brown, Laboratory Commander, and Dr. Hans K. Ziegler, chief scientist of the Laboratory. The Congressman also visited the Diana site readout and control station where TV pictures are received from Tiros. (USASRDL Photo.)

Teams Now Monitoring Its Signals

FORT MONMOUTH — Launching of the Tiros 1 satellite last Friday morning, was only the opener for Signal Laboratory scientists, engineers and technicians working with the National Aeronautics and Space Administration in the meteorological experiment.

Since then, the "readout" and control station at the Diana site, Evans Area, has been operating around the clock in an equipment-filled room under the shadow of the Space Station, a 30-foot-dish shaped antenna pointed toward the skies.

Meantime, the second major readout station was receiving other pictures at Kona Point, Hawaii.

Tracking Signals

In addition to receiving and processing weather data, the Laboratory is monitoring tracking signals from Tiros radio beacon at the Diana site and the Astro-Observation Center near Deal. The track of the 270-pound "bird" also is being followed by radio direction finding stations at Monmouth Airport and Gollingwood Park, both near here, and at Kona Point, Hawaii.

The Signal Laboratory's assignment is being carried out by the Astro-Electronics Division, directed by Samuel Brown with Herbert Butler, chief of Astro-Instrumentation Branch, serving as project manager. Dudley Cline, deputy chief of Mr. Butler's branch is in charge of the local readout station, while Lloyd Massamun heads the Deal operation and Harold Jaffe the radio direction finding. The Deal and Diana sites comprise the Astro-Observation Branch, headed by Alan Gross. The Tiros pictures were first sent to Washington by a fac-

Jewish Welfare Group To Cite Col. Abramowitz

FORT MONMOUTH — Lt. Col. Reuben Abramowitz, USA (Ret), 347 Lowden Court, Long Branch, who during his military career served several tours at Fort Monmouth, will be honored at the Annual Conference of the New Jersey Armed Services Committee, National Jewish Welfare Board, to be held at Hotel Balfour, Lakewood, on 1



\$4-Million Contract Let

Award to Extend Project Michigan For One Year
FORT MONMOUTH — A \$4,000,000 Army Signal Corps contract let to the Department of

Approve 2 Health Plans

They Are First Of 40 Pending In Benefits Act
EDITOR'S NOTE: Following is the first of two articles describing two government-wide health bene-

Col. Raymond to Address Retired Officers Group

FORT MONMOUTH — Colonel J. E. Raymond, USA (ret) will be the speaker at the dinner meeting of the Central New Jersey Chapter of the Retired Officers Association, to be held at Glider Hall next Thursday, when the nation will mark the 50th anniversary of Abraham Lincoln's assassination. Colonel Raymond, who for over fifty years has studied the events surrounding the tragic



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Fort Monmouth, New Jersey THURSDAY, APRIL 7, 1960

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Pilots

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The Signal Laboratory's big assignment is being carried out by the Astro-Electronics Division, directed by Samuel Brown with Herbert Butler, chief of Astro-Instrumentation Branch, serving as project manager. Dudley Cline, deputy chief of Mr. Butler's branch is in charge of the local readout station, while Lloyd Manamon heads the Deal operation and Harold Jaffe the radio direction finding. The Deal and Diana sites comprise the Astro-Observation Branch, headed by Alan Gross.

The Tiros pictures were first sent to Washington by a facsimile wire system set up and operated by the Data Processing Facilities Division under the direction of John A. Erhart, chief of the Graphical Data Section.

Some 50 Laboratory employees and Signalmen, plus personnel from RCA, have a direct hand in the successful project.

See SATELLITE, Page 3

Showcase Committee

LISTENS TO TIROS—Rep. Victor L. Anfuso (D-NY) listens to the tracking signal from Tiros I as the weather observation satellite is monitored at the Deal Astro-Observation Center of the U. S. Army Signal R&D Laboratory. With Mr. Anfuso are Col. Harold McD. Brown,

Laboratory Commander, and Dr. Hans K. Ziegler, chief scientist of the Laboratory. The Congressman also visited the Diana site readout and control station where TV pictures are received from Tiros. (USASRDL Photo.)

Approve 2 Health Plans

They Are First Of 40 Pending In Benefits Act

EDITOR'S NOTE: Following is the first of two articles describing two government-wide health benefits plans approved by the Civil Service Commission under the Federal Employees Health Benefits Act of 1959.

WASHINGTON — The Civil Service Commission last Thursday announced approval of the first two of about 40 plans which will be available to Federal employees under the Federal Employees Health Benefits Act of 1959.

Contracts, scheduled to go in to effect in July, will be signed

Col. Raymond to Address Retired Officers Group

FORT MONMOUTH — Colonel J. E. Raymond, USA (ret) will be the speaker at the dinner meeting of the Central New Jersey Chapter of the Retired Officer Association, to be held at Gibbs Hall next Thursday, when the nation will mark the 95th anniversary of Abraham Lincoln's assassination.

Colonel Raymond, who for over fifty years has studied the events surrounding the tragic event, will speak on that subject.

Born in Washington, Colonel Raymond grew up among persons who were present on that fateful night at Ford's Theater.

Graduated Academy

Colonel Raymond was graduated from the U. S. Military Academy in 1920. His varied Army career included a tour of duty in the Army Signal Corps, when he served as senior instructor of telegraphy at



COL. J. E. RAYMOND

formed services now living in

Satellite Tiros I Resembles Giant Pillbox

Continued from Page One

Other Contributors

Besides Mr. Cline, those contributing to the readout operation are: Ewart Annett, William Chamberlain, Paul Gorbach, George Goubeaud, Guy Hays, Earl F. Hicks, Charles A. Kraus, Frank Lastbeth, William F. Loehning, Lawrence E. Martin, John Mount, Arthur Reibold, Harold Pontecorvo, Richard Tustin, Bert Gadsby, Walter Caruba, George Swistak, Arthur Fountain, William Wele, William Jankelmann, J. T. Simpson, Sp4 Charles Rimmer, Sgt. Donald D. Dophe, Sgt. Edward J. Fischer Jr., Sp4 Robert Ort, Sp4 James Molnar, Sp4 James Downing, PFC Wilfred Klein, PFC Edward Stach, PFC Joseph G. Skvasik, PFC Aaniel Carroll, PFC Jay Mehalak. The RCA personnel include: Greg Martinelli, senior engineer, Lou G. Layton, and Randall J. Joyner.

Edward Rich and Alan Diamond, both of the Signal Laboratory, were at Cape Canaveral for testing, final checkout and launching.

Direction Finders
Mr. Jaffe's radio direction finding force in this area included David Pfaff, Paul Postel, Fred Evans, Steven Munn, and Benjamin Lane, while Walter Day is serving with an RDF group in Hawaii.

Working with Mr. Manamon at the Deal station, where all satellites are tracked, were Samuel Fiedler, John R. Willis, Richard Houbach, Sgt. Paul Manno and Mrs. Doris McAlister.

Charles Schifflin of the Laboratory served as a resident engineer for the Astro-Instrumentation Branch at the RCA plant, while Robert Boyd was a coordinator on the contract with the firm. John Maska is at Kaena Point as chief technical advisor at the data readout and control station located there. Sgt. Jerome LaMarre also is on duty in Hawaii. William Richards, physicist, worked on orbital problems and meteorological aspects of the project.

Supporting Units

Astro-Electronics Division, a part of the Communications Department, was supported in various ways in the project by numerous other areas in the Laboratory, including Solid State Devices, Electronic Parts and Materials, Frequency Control, and Power Sources Divisions, all of the Electronic Components Research Department, Equipment Analysis, Engineering Design and Fabrication Division, and the Antenna and Wire Construction Section, all of Engineering Sciences Department, and Surveillance Department, including its Meteorological Division.

Mrs. Ruth Gardner, secretary to Mr. Butler, handed a multitude of appointments arranged



WILL IT GO?—Dudley Cline, Manasquan, in charge of the Tiros I ground station at Fort Monmouth, shows uncertainty as he gets the word of a "hold" during the countdown on the three-stage Thor-Able rocket which launched the 270-pound satellite at Cape Canaveral, Fla. (USASRD Photo.)



HERBERT BUTLER
FORT MONMOUTH — The Tiros I satellite, launched last Friday, by a Thor-Able rocket at Cape Canaveral, Fla., looks like a giant pillbox, 42 inches in diameter and 18 inches high, making pictures of the earth's cloud cover and terrain peer from the bottom of the 270-pound "bird" build under the technical direction of the U.S. Army Signal Research and Development Laboratory by the Astro-Electronic Products Division of the Radio Corporation of America at Princeton.

The top and sides of the satellite are almost completely covered by over 5,000 solar cells. Extending beneath the payload are four transmitting antennas. A single receiving antenna is on top.

18,000 Miles Per Hour
Traveling about 18,000 mph, the satellite circles the Earth once every 96 minutes. The belt swept by the orbiting Tiros TV cameras extends roughly from 50 degrees N. Latitude to 50 degrees S. Latitude. In the Western Hemisphere this covers an area between Montreal, Canada, and Santa Cruz, Argentina. During its approximate 1,900 orbits during the next three months, Tiros will sweep over every point in this belt.

The payload is named Tiros (Television and Infra-Red Observation Satellite). There are two Tiros satellites scheduled this calendar year; however, this first is not equipped with the infra-red radiation sensors which map relative temperatures of the Earth's surface. This U. S. launching is part of a long-range program designed to develop a satellite capability for providing world-wide meteorological information. The ultimate goal of the weatherman is to have world-wide meteorological observations at his finger tips for analysis. This would greatly assist him in preparing his weather forecasts. Such a wealth of data would lead to a more complete un-

Dr. McGay to Attend New York Seminar On National Security

FORT MONMOUTH — Dr. Culbert McGay of the Department of Nonresident Instruction, U. S. Army Signal School, has been selected to attend a two week National Security Seminar in New York City starting 1 May.

The Seminar is conducted by a team of instructors from the Industrial College of the Armed Forces, Washington, D. C., and is attended by both military and civilian personnel concerned with national security problems. Dr. McGay will attend in his military status as a Lieutenant Colonel in the Signal Corps Reserve.

During the past decade Dr. McGay has undertaken a program of military schooling to include advanced branch training, the five-year Command and General Staff College Associates Course, the Army Command Management Course and the Correspondence Course of the Industrial College. A letter from the College presented upon his completion of the latter course cited Dr. McGay for the outstanding record which he had established.

During the same period Dr. McGay has pursued advanced studies in his civilian profession. He is currently registered as a Visiting Scholar at Columbia University where he is engaged in post-doctoral work in the area of curriculum development.

Col. Caron Addresses Graduating Officers In Signal Courses

FORT MONMOUTH — Colonel B. Caron, Chief of the Budget and Management Branch, Army Communications Services Division, OCSiG, delivered the graduation address to the members of the Associate Signal Officer Advanced Course, Section 255 and the Signal Officer Basic Course, Section 715, in a ceremony held last Thursday, in Myer Hall Auditorium.

The honor graduate for Section 25 was Capt. Glen S. Meader Jr., a graduate of Virginia Military Institute with a BS degree in electrical engineering. He resides at 102 Stratford Road, New Shrewsbury.

As honor graduate, he received the Armed Forces Communications and Electronics Award for scholastic achievement.

Placing second and third in academic honors were Lt. Col. Jackson M. Balch, of Huntsville, Ala., and Capt. Calvin L. Rushing of Fairfax, Va. Col. Balch is a graduate of Trinity College, Dublin, and received his masters degree in economics from the University of North Carolina.

The honor graduate for Section 715 was Lt. Robert D. Shelton, a graduate of Virginia Tech with a BS degree in electrical engineering. He is a resident of Roanoke, Va.

As honor graduate he also received the Armed Forces Communications and Electronics Award for scholastic achievement.

Placing second and third in academic honors were Lt. Richard E. Geyer and Lt. Joseph

Zimons. Lt. Geyer is a graduate of Purdue University with a masters degree in industrial management and Lt. Zimons is a graduate of Worcester Polytechnic Institute with a BS degree in chemical engineering.

Pediatric Clinic Sets Appointment System

FORT MONMOUTH — An appointment system for authorized dependents of military personnel is to be inaugurated next Monday in the Pediatric Clinic at Patterson Army Hospital.

Telephone appointments may be made by calling Pediatric Clinic (LI 2-4000, Ext. 21244) between 0900 and 1130 hrs., Monday thru Fridays. True emergencies will be seen as quickly as possible.

Pediatric clinic hours are from 1300 to 1600 hrs. daily, Monday thru Friday, with the exception of officer holidays when the clinic is closed. Appointments will not be made for more than three work days in advance.

The system is designed to assist in reducing patient waiting time and to enable physicians to treat acutely ill patients with least delay.

Briefing Session Has Debut on WFM-TV

FORT MONMOUTH — A new Troop Information program, "Briefing Session", had its premiere performance last Friday on WFM-TV the Post's closed-circuit television net-

The Monmouth Message, Thurs., Apr. 7, 1960



REGULAR SUGGESTOR — Colonel H. McD. Brow, Commanding Officer, U. S. Army Signal Research and Development Laboratory, congratulates George Heidmark as he presents him with three checks for adopt suggestions. These brought Mr. Heidmark's total suggestions submitted and adopted to 14, tying him first place with Robert Lovelace, Ordnance Office, 4 recipient of the highest number of awards for ideas submitted, postwar. Mr. Heidmark is employed, the Office of the Director, Engineering Design Division, Engineering Sciences Department. (USASRD photo.)

work. The program which is to be presented once a month, is produced by the National Broadcasting Company and is designed to provide information and background on many international events — from peace and disarmament to federal aid to education. In the selected format a host introduces and describes the issue to be discussed, a comment-

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Power Source Division, of the Electronic Component Research Department; Instrument Analysis, Engineering and Fabrication Divisions and the Antenna and Wire Construction Section, all of the Research and Development, Signal Intelligence Department, United States Department of Defense.

Miss Barbara, secretary of the Signal School, handled a multi-million dollar contract, arranged business trips, travel orders and other details while the satellite was being built.



IT GOES!—And Mr. Cline is relieved. (USASRDCL Pic)

Local Artists' Works Shown in Manasquan
PORT MONMOUTH — Miss Myrtle L. Watts, an employee of the Technical Documents Center, Surveillance Department, Evans Area, has an exhibit of paintings in the Manasquan Public Library.

Miss Watts, for five years, has exhibited all paintings under the name of Dora T. Vail of Manasquan, and is a member of the Manasquan River Group of Artists.

A large number of personnel from Evans Area and Fort Monmouth attended a reception in the artist's honor sponsored by the art group, and held in the library.

New Bookstore Opens Doors at Signal School

FORT MONMOUTH — Ribbon-cutting ceremonies were held Friday for the opening of the Signal School's largest and most completely stocked bookstore at Bldg. No. 833 on Saltzman Avenue near Messenger Avenue.

Brig. Gen. Charles M. Baer, Commandant, U. S. Army Signal School, cut the ribbon which officially opened the store for business.

Also participating in the ceremony were: 1st Lt. Gordon Page, Bookstore Officer, Mrs. Catherine Laker, bookkeeper, Miss Rose Pignataro, processing and invoice clerk, Mrs. Catherine Matthes, saleswoman, and Sp4 Eduardo Rosch, assistant to the bookstore officer.

The new bookstore, replacing the Regimental FO branch, will supplement the services of the Squier and Myer Hall branches. Stocked items will include hi-fi equipment, 1001A, books and school supplies.

Regular store hours will be 1000 to 2000 hrs. on Monday, Wednesday and Friday, 1000 to 1700 hrs. on Tuesday and Thursday, and 0900 to 1500 hrs. on Saturday.

6 Employees Here To Take GERA Tour

FORT MONMOUTH — Six Department of the Army personnel from this area, with their families, will be embarking for Europe the end of May as part of the Government Employees Recreational Association's (GERA) Holiday Tours.

The latest GERA Memo announces the Hierarchy for Japan - Hawaii leaving New York 11 August. The tour includes transportation and lodging for 14 days in Japan and 6 days in Honolulu on Waikiki Beach at the Sheraton Surfside Hotel. Reservations are on a first come-first served basis. There are a few openings remaining on the other European Tours which leave 19 and 26 August, and 2 October.

Among those leaving 26 May are: Stanley S. Schwartz, USA, Signal Radio Propagation Agency; Darms Garbarini, USA Signal Equipment Support Agency, and his wife and daughter Maria; Rosemary Griffith, USASRDCL, Evans Area; Lavalle Plak, Signal Patent Agency Evans Area, and Mrs. Plak; Gunther Wolff, USASRDCL, his wife, and daughter, Christiane; and Fred Woodhouse, USASRDCL, Surveillance Dept., Evans Area, and Mrs. Woodhouse.

Further information concerning trips may be had by contacting the GERA Secretary, P. O. Box 1400, G. P. O., New York 2, N. Y. or Miss Dorothy D. Frommel, PR 8-7724 or Ext. 61381.

RECAP OPPORTUNITY
 The Army Signal School is seeking qualified personnel for the following positions:

This U. S. launching is part of a long-range program designed to develop a satellite capability for providing world-wide meteorological information. The ultimate goal of the weatherman is to have world-wide meteorological observations at his finger tips for analysis. This would greatly assist him in preparing his weather forecasts. Such a wealth of data would lead to a more complete understanding of our weather and with this, perhaps some theories relating to weather control.

There are specific reasons for photographing cloud cover. Such pictures will provide meteorologists with cloud patterns indicating birth or existence of hurricanes, cyclones and other weather activity. It is hoped that these photos will provide meteorologists with more detailed information on individual cloud types over specific areas. Analysis of this data will assist meteorologists toward a better understanding of the cause of our weather.

Experiment
 The Tiros satellite is an experiment—in itself it cannot be considered an operational weather system. Its useful lifetime is expected to be about three months. However, if a meteorological satellite relating weather data to Earth proves feasible such a system consisting of several satellites providing coverage over the entire globe may one day be used on a continuing 24-hour basis.

This Tiros satellite, in addition to its TV cameras and associated equipment, contains beacon transmitters, attitude sensors, and telemetry circuits. Power is supplied by nickel-cadmium batteries charged by solar cells. Power output is expected to average about 18 watt.

There are two primary ground stations which can both command the satellite and receive photo data. These are located at Ft. Monmouth, and Kaena Point, Hawaii.

Cameras Differ
 The two Tiros TV cameras differ in coverage and resolution. The side-angle camera, at 400 miles altitude, is designed to cover an area of cloud cover roughly 800 miles on a side. The narrow-angle camera will photograph a smaller area located within the wide-angle camera's view.

Identical except for lens equipment, the cameras are both the size of a water glass and use a 1-inch Vidicon tube especially designed for satellite use. Each camera consists of two parts: a Vidicon and a focal plane shutter which permits still pictures to be stored on the tube screen. An electronic beam converts this stored picture into a TV-type electronic signal which can be transmitted to ground receivers.

Contract Awarded Research Institute
FORT MONMOUTH — An Army Signal Corps contract for \$152,436 has been awarded to Stanford Research Institute, Menlo Park, Calif., for 18 months research work to conduct an investigation of Grapical Data Processing culmina-



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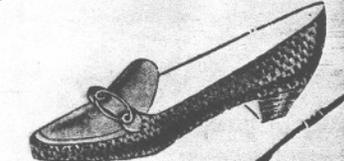
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For the CHILDREN ...

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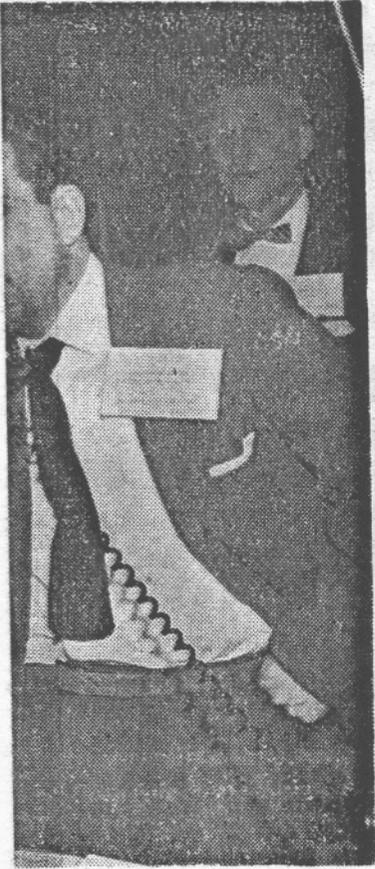


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line, Manasquan, in charge of on at Fort Monmouth, shows the word of a "hold" during three-stage Thor-Able rocket -pound satellite at Cape Can photo.)



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Tops Section 718

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Y. Zimonis. uate of Pur a masters management is a "gradual technie Inst gree in -ch Lt. Color quist, Dept Officers' D sented dipl ates.

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FORT M appointment ized depend- sonnel. is next Mond Clinic at P. pital.

Telephone be made b Clinic (LI between 09 Monday th emergencies quickly as I

Pediatric from 1300 Monday thr exception c when the c pointments for more th in advance.

The syster sist in reduc time and sians to treat with least d

Briefing Debut on

FOR MC new Troop gram, 'Brie its premiere Friday on V closed-circuit

OUR LOCATION N





ed. (USASRD L Pic)

Opens School

ere: 1st Lt. Gordon
bookstore Officer, Mrs.
e Luker, bookkeeper,
se Pignataro, process-
invoice clerk, Mrs. Ca-
Matches, saleswoman,
Eduardo Rosich, aso
o the bookstore officer.
ew bookstore, replac-
Regimental PX branch,
plement the services of
er and Myer Hall bran-
ocked items will in-
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id school supplies.
r store hours will be
2000 hrs. on Monday,
ay and Friday, 1000 to
on Tuesday and Thurs-
l 0930 to 1530 hrs. on

loyees Here ke GERA Tour

MONMOUTH — Six
ent of the Army per-
from this area, with
nilies, will be embark-
Europe the end of May
of the Government Em-
Recreational Associa-
GERA) Holiday Tours.
test GERA Memo an-
the Itinerary for Ja-
vail leaving New York
st. The tour includes
ation and lodging for
in Japan and 6 days
ulu on Waikiki Beach
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ons are on a first
t served basis. There
w openings remaining
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ve 19 and 26 August,
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those leaving 20 May
dey S. Schwartz, USA
dio Propagation Agen-
s Garbarini, USA Sig-
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is wife and daughter
osemary Griffith, US-
Evans Area; Lavalle
nal Patent Agency
rea, and Mrs. Piki
Wolf, USASRD L, his
daughter, Christiane

ervation satellite). There are
two Tiros satellites scheduled
this calendar year; however,
this first is not equipped with
the infra-red radiation sensors
which map relative tempera-
tures of the Earth's surface.

This U. S. launching is part of
a long-range program designed
to develop a satellite capability
for providing world-wide me-
teorological information. The
ultimate goal of the weather-
man is to have world-wide me-
teorological observations at his
finger tips for analysis. This
would greatly assist him in pre-
paring his weather forecasts.
Such a wealth of data would
lead to a more complete un-
derstanding of our weather and
with this, perhaps some theories
relating to weather control.

There are specific reasons for
photographing cloud cover. Such
pictures will provide meteorolo-
gists with cloud patterns indi-
cating birth or existence of hur-
ricanes, cyclones and other
weather activity. It is hoped
that these photos will provide
meteorologists with more de-
tailed information on individual
cloud types over specific areas.
Analysis of this data will assist
meteorologists toward a better
understanding of the cause of
our weather.

Experiment

The Tiros satellite is an ex-
periment—in itself it cannot be
considered an operational weath-
er system. Its useful lifetime
is expected to be about three
months. However, if a meteor-
ological satellite relaying weath-
er data to Earth proves feasible
such a system consisting of sev-
eral satellites providing cover-
age over the entire globe may
one day be used on a continuing
24-hour basis.

This Tiros satellite, in addi-
tion to its TV cameras and as-
sociated equipment, contacts
beacon transmitters, attitude
sensors, and telemetry circuits.
Power is supplied by nickel-cad-
mium batteries charged by so-
lar cells. Power output is ex-
pected to average about 19 watt.

There are two primary ground
stations which can both com-
mand the satellite and receive
photo data. These are located
at Ft. Monmouth, and Kaena
Point, Hawaii.

Cameras Differ

The two Tiros TV cameras
differ in coverage and resolu-
tion. The side-angle camera, at
400 miles altitude, is designed
to cover an area of cloud cover
roughly 800 miles on a side.
The narrow-angle camera will
photograph a smaller area lo-
cated within the wide-angle
camera's view.

Identical except for lens equip-
ment, the cameras are both the
size of a water glass and use a
1/2-inch Vidicon tube especially
designed for satellite use. Each
camera consists of two parts:
a Vidicon and a focal plane
shutter which permits still pic-
tures to be stored on the tube
screen. An electronic beam con-
verts this stored picture into a
TV-type electronic signal which
can be transmitted to ground
receivers.

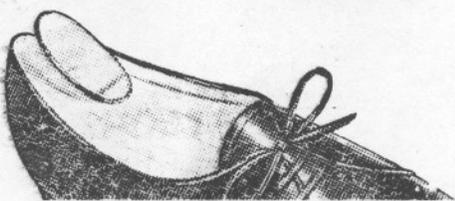


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the youngsters.

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Davis . . . Bobbie Jerome.



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FRIDAY, APRIL

MONMOUTH SHOPPING CENTER

Eatontown Circle, Eatontown

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and your family to another SLADKUS SHOP
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y shopping convenience. As you walk through
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with a reputation for filling every
demand you make of them. You
appreciate their quality and appreciate
their names are your assurance
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