

CAA AERO CENTER



"BEACON"

*"Imparting knowledge is only lighting other men's candle at our lamp--
without depriving ourselves of any flame" - Jane Porter*

December 20, 1950

OKLAHOMA CITY, OKLAHOMA

Vol. I, No. IX

PMD LOOKS BACK OVER A YEAR'S PROGRESS; SHIPS OVER FIVE MILLION POUNDS

During the last calendar year, the Project Materials Division has assembled, packed, and shipped 4,184 shipments totaling 5,435,917 pounds. During this year, the division has received and stored 1,010 shipments totaling 8,934,270 pounds. The above shipments consisted of both electrical and construction materials and equipment.

Two hundred sets of complement material and equipment consisting of approximately 58 items to a set have also been shipped by the Project Materials Division during this year. This, of course, is included in the above total shipments and weights.

Approximately thirty-eight Work Orders have been received and twenty-two have been completed. The Work Orders received from Washington consisted of various jobs such as: the fabrication of 150 ft. steel towers, modification of VOR monitor equipment, repair of field detectors for Instrument Landing Systems, modification of sideband generators and modifications of thousands of building parts for Localizer Transmitter buildings.

VOR FLIGHT CHECKING DATA PROCESSING CENTER ESTABLISHED AT AERO CENTER

A Data Processing Center for analyzing Visual-Omnirange flight check recordings has been established at the Aeronautical Center following conferences held last week between Arthur E. Jenks, Chief of Facilities Flight Inspection, Washington, D. C.; Director Fred M. Lanter, E. E. VanWald, Flight Inspection Branch Chief and B. A. McKay, who on December 11 transferred to the Center from the First Region Flight Inspection office to head the new establishment.

Under the new plan, a move toward standardizing VOR operation, flight check recordings with patrol pilot reports from all Regions will be sent to the Center for error analysis and will then be returned for correction of equipment.

Processing of the flight recordings involves setting up each recording on an electro-mechanical device known as an azimuth calculator, 'an enlarged protractor', which reproduces the recording exactly as it was produced during the flight check. The degree of station error is then readily computed.

Invented and developed by Mr. Jenks the device will also be utilized by the Army Air Forces to

(Continued Page 12) DATA PROCESSING CENTER



A CHRISTMAS MESSAGE FROM THE DIRECTOR

Once more we have the privilege of participating in the spirit and activities of the Christmas Season. In doing so, let us be continuously mindful of the event we are celebrating its purpose, and the promise it holds for each of us and the way of life built progressively over the centuries on the foundations of His teachings — our way of life.

During these centuries, progress individually and collectively has seemed slow at times and occasionally even doubtful. It may seem so again, but it has been and will continue to be real if we are ever mindful of these teachings and maintain our lives accordingly.

Most of us fail to realize the imprint that the examples we set and even our small, seemingly unimportant acts leave upon the lives of others. No matter how unimportant and un-influential we may consider ourselves to be, each of us influences the lives and emotions of others constantly.

Unconsciously even more than consciously, we are individually making this world a better or a worse place for countless others. Thus we are adding continuously to the sum total of happiness or of misery by our every word and deed.

Let us not miss this opportunity to reassess our attitudes, activities and words and re-dedicate them during this Christmas Season to spreading the 'Christmas Spirit' throughout the entire year.

A Very Merry Christmas and Happy New Year to All

F. M. Lanter
Director, Aeronautical Center

CAN YOU TELL A GOAT FROM A SHEEP?

I have often heard people speak of separating the sheep from the goats, but I'm never certain which animal the speaker favors. I made up my own mind on that point recently when I overheard a conversation between two youngsters who were quite seriously discussing the woes of the world. I couldn't actually see them, but after the first sentence I began eavesdropping shamelessly. The first speaker I identified as 'Goat,' and the other 'Sheep.'

Goat: What's your family going to do when this war starts?

Sheep: We don't know yet; we're just going to wait and see.

Goat: Maybe war won't start if we drop atom bombs on the Chinese and blow them up.

Sheep: Yeah, that would be faster than bullets I bet.

Goat: But if we do, my Dad says the Russians would come over and drop atom bombs on us.

Sheep: You mean they'd blow us up just because we blew up the Chinese? Why would they?

Goat: Because they just want us to use bullets.

Sheep: Gosh, maybe we better just use bullets then. We can beat 'em with bullets easy anyway. We can beat anyone with bullets.

Goat: But bullets are war, and atom bombs aren't. Atom bombs are just BOOM, and that's all.

Sheep: I'd rather have a bullet war than get atom bombed. Besides, if we have a bullet war, my Pop will get to be a Major.

Goat: Wars aren't good for us, though, because too many of our soldiers get killed. Maybe if we dropped some atom bombs on Russia first and blew it all up, then we could atom bomb the Chinese and there wouldn't be any war.

(Cont'd. Page 12) A GOAT AND A SHEEP



THE EDITOR AND BEACON STAFF
TAKE THIS OPPORTUNITY TO WISH
EACH AND EVERY C.A.A. EMPLOYEE
AND HIS FAMILY A VERY MERRY
CHRISTMAS AND A HAPPY NEW YEAR.

Editor, BEACON



THE FIRST CHRISTMAS

For unto us a child is born, unto us a son is given: and the government shall be upon his shoulder: and his name shall be called Wonderful, Counsellor, The mighty God, The Everlasting Father, The Prince of Peace.

Isaiah 9:6.

And there were in the same country shepherds abiding in the field, keeping watch over their flock by night.

And, lo, the angel of the Lord came upon them, and the glory of the Lord shone round about them: and they were sore afraid.

And the angel said unto them, Fear not: for, behold, I bring you good tidings of great joy, which shall be to all people.

For unto you is born this day in the city of David a Saviour, which is Christ the Lord.

And this shall be a sign unto you; Ye shall find the babe wrapped in swaddling clothes, lying in a manger.

And suddenly there was with the angel a multitude of the heavenly host praising God, and saying,

Glory to God in the highest, and on earth peace, good will toward men.

Luke 2:8-14

This space was reserved to tell people who don't know how hard it is to fill a space like this with something appropriate that will just fit into a space like this how hard it is to fill a space like this.

.....

The BEACON is prepared and published monthly by the CAA Aeronautical Center Employees' Association as service to all CAA personnel.

Staff members include:

Editor.....Arthur Schmitt

Asst. Editors.....R. W. Spear,

R. H. Orren, O. C. Comer

Sports Editors.....Ann Martin

Clyde Daniels

Photography.....L. E. Shedenhelm

Staff Artist.....Hattie Reeder

Printing.....Edwin Frame

Reporters.....Esther Woods, Asia

Krause, Doris Hartley, Marion Abshire, Daisy

Dovell, Norma Trogdon, Grace Koide, Betty

Mershon, Doris Nichols, Lila B. Fisher.

Distribution date of the BEACON is third Wednesday of each month. Deadline for copy is the second Wednesday of each month. Copy may be handed to branch secretaries, or submitted to the editor, Arthur Schmitt, Facilities Branch, AC-636.

Published: CAA Aeronautical Center, Will Rogers Field, P. O. Box 1082, Oklahoma City, Oklahoma.



AVIATION EDUCATION SUPERVISOR VISITS AT POLICIES AND PROCEDURES BRANCH

Dr. H. E. Mehrens, Supervisor of the Aviation Education Program of the Civil Aeronautics Administration, was a recent visitor at the Policies & Procedures Branch. Dr. Mehrens had just attended a conference on Air Age Education at the University of Oklahoma, Norman, Oklahoma. He spent several hours here discussing educational problems with C. R. Coachman.

As Supervisor of the Aviation Education Program, Dr. Mehrens has contributed a great deal to the inclusion of Aviation in the curriculum of our country's educational institutions. He lectures extensively and has written numerous magazine articles. He expressed regret that he could not stay longer and see all of the facilities we have here at the Center.

RECRUITMENT FOR ALASKA SERVICE IN RADIO MAINTENANCE TO BE HANDLED BY FACILITIES

Recruitment of radio maintenance men for CAA service in the 8th Region where approximately 30 vacancies exist will be handled by Facilities Branch. Claude E. Gardner, Chief, revealed last week.

A position of Recruiter has been opened and will be filled as soon as possible, Mr. Gardner said. Qualifications for the new position should include acquaintance with the physical, social and working conditions in the territory. To provide or supplement these requirements a field trip to Alaska may be arranged for the purpose of familiarization with CAA installations, taking of photographs securing other necessary information.

Because of rapid expansion of CAA facilities in Alaska, it has been increasingly difficult to keep the pace with present recruiting procedures, according to Mr. Hammerly, 8th Region Communications Maintenance Chief, who paid a visit to the Center Nov. 20 for conferences on the subject.

FACILITIES BRANCH REACHES TOWARD MAXIMUM TRAINING EFFORT

An all-time high of 140 students are in training at Facilities Branch in the four school units provided by the CAA for instruction in the specialized electronic equipment operated in the interest of civil and military aviation. Engineers and technicians from all Regions come as and when qualified, often staying on or returning in a few months from completion of one course to move into another.

A breakdown of the total shows current enrollment in the four units as follows:

Radio Aids Section	
Indoctrination	52 students
ILS/VOR	47

Radar Aids Section	
DME	17
ASR-PAR	24

Background and qualifications appear to be on the upgrade as more and more engineering graduates enter the CAA.

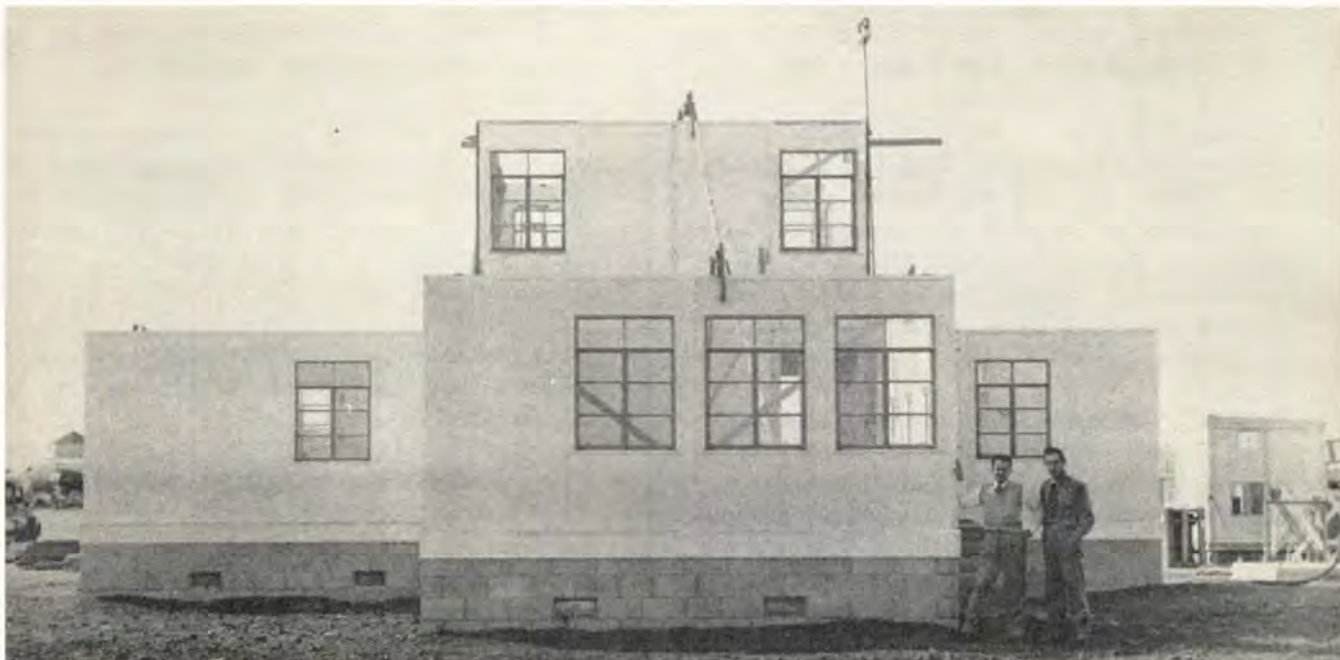
For example, the Indoctrination Unit under A. D. Edgerton customarily gives screening examinations for entrance requirement to the ILS/VOR course to all 8th Region students and to those of other Regions desiring them. Out of 10 students taking the relatively stiff examination in a limited and average time of five hours, seven made passing grades.

NEW INSTRUCTORS AT FACILITIES

Two instructors have been added to the staff at Facilities Branch ILS/VOR training unit.

William J. Rosenberry, a former engineer with Otis Elevator Co. in Oklahoma City took up his duties effective Nov. 20 and is teaching the Antenna Loops and Transmission Lines Course.

Joe P. Lindsey, formerly an engineer with a public utility firm in Wichita Falls, Texas, joined the staff effective Dec. 11, and will teach the ILS/VOR Radiation Patterns Course.



CONSTRUCTION OF COMBINED INSAC-TOWER CONTINUES; CAB DRAWINGS RECEIVED

William Hielscher, Engineer-in-charge of the construction of the combined INSAC-Tower, reports that the construction work is 75% completed.

The construction of the combined INSAC-Tower started in the first week of October. The installation is located east of the flight line apron at the Aero Center.

Personnel shown in the above photograph (left to right) are: Owen C. Comer, President of the Employees' Association and William Hielscher, Airways Engineer, Engineering Branch, Project Materials Division.

It was also learned from Hielscher that 'tentative' drawings, showing the Air Traffic Control Cab and types of glass to be used for experimental purposes, have been received from the Structures and Lighting Establishment Branch, Washington. The various types of glass to be used include hermetically sealed, single plate, clear, tinted, type furnished by Pittsburgh Plate and Glass Company and a type furnished by Libby-Owen-Ford. The different types of glass will be alternated around the cab.

Unless the procurement of materials causes a serious problem, the estimated completion date of the construction is set for the first of February.

Clyde L. Daniels, Acting Chief, Engineering Branch, Project Materials Division, states that the electrical installations are progressing.

Several sets of drawings covering other parts of the installation are expected to be received from Washington in the near future.

AIRCRAFT BRANCH VISITORS

On November 30, the Oklahoma City Post Office Flying Club paid a visit to the Aircraft Branch. Guy Faulkner represented the Branch and showed the visitors several films, then took them on a tour of the facilities. The Club members were quite amazed at the ramifications of the Branch's endeavors and very interested in it all. Some of those present were C. V. Edwards, C. C. Harris, J. Haskins, L. Valbracht, B. Fried, W. L. Haynes, and I. Watkins.

On December 1, Lake Littlejohn of the CAA Aviation Technical Mission in Venezuela dropped in on the Aircraft Branch to renew old acquaintances. He is in Venezuela as an advisor to assist in the development of aviation.

On December 2, H. B. Seaton who is Chief of the Aviation Unit of the Tennessee Valley Authority paid a visit to the Aircraft Branch. He was very complimentary and will return at a later date to spend more time here.

John R. Dempster, Field Engineer with the Sperry Gyroscope Co., is now at the Aircraft Branch. He is here to assist the Branch in experimental use of the Sperry Exhaust Analyzer in the engine test cell.

AIRCRAFT BRANCH REGRETS LOSS OF T. W. HOWARD TO TEXAS FIRM

The Aircraft Branch sincerely regrets the loss of their Powerplant Engineer to industry. T. W. Howard has left the CAA to become Administrative Engineer with Shaw Estes, Inc. of Dallas, Texas. They are Engineers and Constructors of engine test installations, turbine spin test pits and other specialized industrial installations.

He will be missed mainly for his day-by-day cheerfulness, his eagerness to be of assistance to everyone and his whole-hearted cooperation with all. He was mainly responsible for the completion of the Center's engine test cell and the installation of the Sperry Engine Analyzer. He also cooperated with Ray Matthews to prepare and execute the two powerplant courses now being given at the Aircraft Branch. It is going to be a very difficult task to find a suitable replacement for T. W. Nevertheless, we wish him every success in his new field of endeavor.

FACILITIES RADAR SECTION GETS NEW RADAR AND DME CLASSES

A new Radar class of 24 men arrived Nov. 27 for 14 weeks instruction in the CAA ASR PAR equipments. It is the 8th class and is the largest so far handled, according to M. E. Eisenbach, Radar Aids Section Chief.

The 2nd DME class composed of 19 men graduated on Friday, Dec. 8 and was followed without break by Class 3 which arrived Monday, Dec. 11 for the ten week course. Seventeen men are enrolled in the new training class.

The ASR-1 engineering prototype equipment previously reported as an anticipated addition to present Radar laboratory equipment is now under definite purchase contract with Gilfillin, Inc. of Los Angeles. Date of the contract was Nov. 21.



ILS/VOR TRAINING REACHES PEAK AS EXPANDED PROGRAM ROUNDS OUT

The expanded ILS/VOR training program begun in September with a schedule of continuously rotating classes reached its maximum Dec. 4 when Class 20 arrived for the 13-week course and four classes will be in session simultaneously from now on.

Class 17, which arrived early in September, graduates Dec. 29 and the next class, No. 21 is scheduled to arrive Jan. 2.

ADMINISTRATIVE TRAINING NEXT WEEK

The four classes composed of 47 men currently in the ILS/VOR unit will receive Administrative Training Tuesday through Friday of next week.

The program for the week includes talks by William Jackson, 4th Region Assistant Personnel Officer.

Robert Spear of the Center's Aircraft Branch will give a two-hour talk on Helicopters and their use in relation to CAA.

Other officials of the Center on the program are L. D. Cameron of Personnel, C. W. Mueller of Facilities, and Frank Deane of Budget and Accounts.

Student participation talks will be given during the week by J. F. Hammond (6th Region), M. J. Gatti (1st Region) and L. V. Kilpatrick (3rd Region).

At the conclusion of the week's program, addresses will be given by Fred M. Lanter, Aero Center Director, and Claude E. Gardner, Facilities Chief. Certificates of graduation will be mailed at a later date to departing Class 17.

INSTRUCTOR CHANGES

Instructor assignments in the various phases of ILS/VOR training have been changed to accommodate the full program, and new instructors have been added to the staff. Current assignments are:

Circuit Analysis	F. G. Smith
Radiation Patterns	J. P. Lindsey
Loops and Transmission Lines	W. J. Rosenberry

Continued on Page

ILS/VOR TRAINING



AVIATION OFFICIALS FROM EIRE WILL VISIT AT CENTER STARTING JAN. 2

Two Civil Aviation officials from County Cork, Ireland, will report at the Aeronautical Center Jan. 2 for a one-month stay, Claude Gardner, Facilities Chief, stated last week. They are Mr. O Dallyagh, Chief Communications Engineer at the Shannon National Airport; and Mr. Jones, an official of Irish Civil Airways.

Here to inspect training facilities and gather data on teaching methods, the men from Ireland will be concerned with communications equipment, teletype, and the Instrument Landing System during their visits to the Facilities Branch. Other Branches to be visited are Airways Operations and various Aviation Safety departments.

NEW ALASKAN COMMUNICATOR CLASS BEGINS ON DEC. 18 FOR 12 TRAINEES

The Airways Operations Branch is recruiting a new class of Aircraft Communicators for Alaska. About 12 trainees will commence the indoctrination course on December 18, 1950.

Six Aircraft Communicators departed for Alaska on December 12 after completing the indoctrination course. They were John J. Justus, John J. Humphrey, Jr., William O. Nesbit, Jack Davis, Durwyn F. Robertson, and Samuel C. Wolling.

Mrs. Anne W. Lawrence has been ably assisting Catherine James in heavy recruitment correspondence for Alaskan aircraft communicators.

WASHINGTON OFFICIALS VISIT CENTER FOR CONFERENCES ON STANDARDIZATION

The Aeronautical Center was visited by several Washington Office people during the week of December 11. These included: J. P. Morris, Chief Aircraft Control Division; L. N. Bayne, Director, Office of General Services; A. O. Basnight, Budget Office; and Charles Pfrommer, Aircraft Maintenance Specialist. The group spent two days conferring with F. M. Lanter and William Matthews regarding the Standardization Project.

AIRWAYS MAINTENANCE DIRECTED STUDY PROJECT GETS WASHINGTON ASSIST

The projected home study course to be offered in the near future to Airways Maintenance technicians was under close study in Washington recently when John C. Straiton, Facilities Directed Study head, conferred with high level CAA training and maintenance officials during a two-week visit. He was accompanied by W. F. Grade of 4th Region Airways Maintenance.

A general outline of the new course was drawn up and details of the first section to be developed into lesson texts were completed. The 20 to 24 lessons will be offered to airways maintenance technicians, inspectors, and general mechanics, and will cover the principles of optical, electrical, and mechanical systems as they relate to the different equipments used on the Federal Airways.

Conferring in Washington in addition to Mr. Straiton and Mr. Grade were J. F. Teunisson, Maintenance Standardization Chief, presiding; R. L. Beavers, Lighting and Structures Maintenance Chief; Harry Williams, Lighting and Structures Maintenance Inspection Chief; and Lou Elias.

Now in production at the Directed Study unit at the Center is the forthcoming Course II covering Radar Fundamentals. It is being prepared and written by Robert Ashby.

Upon his return Mr. Straiton reiterated that present policy calls for removal from the files on Course I of all progress cards showing no work accomplished during the preceding year. All technicians more than a year in arrears on home study for the basic Mathematics Course I will then be required to re-enroll if they wish to complete the course.

Two Philippine Island CAA men have completed the Directed Study course recently and are this week to be sent Certificates of graduation. They are Simeon V. Javier of Manila and Gaudencio Salita of Quezon City.



TRAINING, STANDARDIZATION, AND SUPPLY SERVICES OF THE AERONAUTICAL CENTER KEEP PACE WITH PROGRESS - HIGHLIGHTS OF 1950 REVIEWED

As 1950 draws to a close anyone in any of the divisions and branches of the Aeronautical Center may look back over the year with a feeling of pride in their achievements. Hewn from necessity from the urgencies of rapidly developing aviation, and from the ideas of the men who guide its destiny these accomplishments are the fruits of labor performed against the odds imposed by limited budgets, and often by the push and pull pressures of other departments and agencies. Channelled and integrated through the offices of the Director, Fred M. Lanter and the assisting offices of C. J. McGinnis, W. G. Forman, and L. E. Shedenhelm these advances in services to the CAA reflect the combined energies of all employees down through division and branch chiefs, engineers, instructors, technicians, mechanics, warehousemen -- all of the 400 odd have played an important, vital role.

OKLAHOMA CITY CAA ACTS AS PARTNER TO AERO CENTER

Across Will Rogers Field from the Aeronautical Center are the operating services of the CAA for Oklahoma City's airport under 4th Region supervision.

In conjunction with services to the flying public CAA personnel stationed there cooperate fully with Center activities, daily helping toward full utilization for training purposes of commissioned airport facilities, navigational aids, and communication services.

The modern tower and general layout of the airport are shown in the aerial photo at the bottom of the opposite page.

Available for use at Oklahoma City are the facilities standard with CAA at large airports Tower, INSAC, Instrument Landing System, Low Frequency Range, and VOR. New buildings have been erected and are readied for installation of a new ILS Localizer and Null-reference Glide Path.

The VOR has this fall been modernized with circular roof counterpoise and houses fully operating Distance Measuring Equipment.

Personnel stationed at OKC are:

INSAC

Clyde L. McCormick, Chief
Kenneth P. Rose
Lloyd Y. Turner
Frank Wieler
Elmer L. Fields
Charles D. Gaylor
Paul P. Nelson
Clara M. Capps
Marvin J. Stiles

TOWER

Raymond C. Sherfy, Chief
Morris H. Hanes
Clifford D. Slack

(Cont'd, Page 12) PARTNER TO AERO CENTER

During the year upwards of a thousand CAA men have received training at the Center's various schools, scores of research and development projects have been completed 5,435,917 lbs. have been handled by the warehousing facilities of Project Materials Division. In performing these and other increases in services total personnel of the Center has grown from less than 300 to more than 400. So rapid is growth that the aerial photos of the Center and Will Rogers Field, shown on the opposite page and taken recently, do not indicate new developments or new buildings acquired and constructed.

Probably the most important change during the year was the creation of the Aircraft Standardization Division. Receiving official status in August the division, under the direction of W. M. Matthews who arrived March 22 to set it up, has grown into an organization of more than 60 skilled aircraftsmen engaged at Hangar 50 in standardizing all aircraft operated by the CAA.

Early in October ground was broken and the foundation laid for the combined INSAC-Tower standardization installation. Now reported 65% completed the project, planned for months previously through the offices of the Project Materials Division and the Establishment Engr. Division, will serve as an experimental guide in establishing similar installations most efficiently and economically in all CAA regions.

Since August the rate of training of engineers and technicians at Facilities Branch for the installation and maintenance of CAA electronic communication and navigational aids has more than doubled. Training in the new Distance Measuring Equipment was begun in August. On October 2 a greatly expanded training program for ILS/VOR was initiated.

Throughout the year, but unreported by the BEACON largely for security reasons, the

(Cont'd, Page 12) REVIEW OF 1950

FACILITIES INDOCTRINATION TRAINING REACHES NEW HIGH WITH 52 ENROLLED

With 52 new employees of the CAA's Facilities Branch presently in attendance, instructors of the Indoctrination course reached a new high of training when Class 17 arrived on Dec. 4. The class is composed of 22 technicians.

Since graduation on Dec. 1 of the 13 men of Class 14, there has been a total of 160 who have completed the 12-week course of training in the basic subjects required for proper maintenance of CAA communication equipment, according to A. D. Edgerton, Indoctrination head.

Recruiting of an instructor is now under way to fill the vacancy left by the transfer of J. T. Cupp to ILS/VOR.

To specially benefit trainees assigned in regions where maintenance of OFACS equipment is required, an additional course is offered in Diversity receiving systems and FM Link transmitters and receivers. Instructor in this phase of training is O. A. Nash.

* * * * *

PARTNER TO AERO CENTER *(Continued from Page 9)*

TOWER *(Continued)*

Wilbur D. Zwiacher	Marion F. Ticer
Windel G. Maynard	James M. Carver
Theodore N. Kichincoe	Carl H. Black
Grover L. Mattix	Wiley R. Burrus

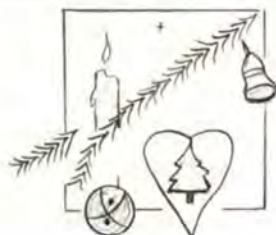
MNTNC

L. B. Haggard
A. B. Moody
E. B. Bassett
Marion Rivers
Fred Bright
M. L. Smallwood

ASDO

John Griffin
Hugh Raulerson
Robert Royal
Alfred C. Reed
Billye Jo Robinson
Dixie Lewis

* * * * *



HIGH-RELIABILITY MINIATURE TUBES CONTRIBUTE TO AVIATION SAFETY

Electronic tubes must necessarily be used for the satisfactory operation of complex equipment associated with modern aircraft. However, factors such as constant vibration and wide variations in operating voltages impose requirements which are difficult for the tubes to meet.

Failure of conventional tubes was quite high, endangering the safety of airline operations and increasing maintenance costs, so a need for more reliable tubes was evident.

If the tubes could be depended upon to operate for a definite period, unscheduled failures which affect safety and increase maintenance expenses could be eliminated. The actual number of hours of tube life is less important than the fact that no failures occur during the established service time.

By using special design, advanced manufacturing techniques and rigorous testing procedures, tubes are now being produced in which failures during the first 1000 hours have been reduced from 30% to 3.2%.

Ten types are presently available and fill the majority of the needs for airborne communication and navigational equipment.

Max Kincaid of the Aeronautical Center Flight Inspection Branch stated last week that all receivers now being manufactured include the new tubes.

Present RE 9 glide path receivers are not adaptable to use of the ruggedized tubes because of the low 28 volt plate voltage employed. A new glide path receiver, the Collins 51V, with much improved sensitivity required for use in higher-speed aircraft is currently being installed by the airlines.

* * * * *

ILS/VOR TRAINING *(Continued from Page 6)*

ILS Localizer Theory	E. G. Crippen
ILS Localizer Lab.	R. S. Lee
ILS Glide Path Theory	A. W. Schmitt
ILS Glide Path Lab.	L. R. Clements
VHF Omirange Theory	C. W. Wallach
VHF Omirange Lab.	J. T. Cupp, Jr.

Laboratory Chief C. C. Drumeller covers all the Facilities laboratories as schedules require.

* * * * *

AIRWAYS COMMUNICATIONS & TRAFFIC CONTROL



Shown above is the training model airport used by Airways Operations. It is a replica of Oklahoma City's Will Rogers Field, complete in detail including a field lighting system and controllable tetrahedron.

Simulating approaches with small model airplanes, students practice control tower procedures. Approach and landing instructions are given over a communication system with microphone input from training tower booth completely equipped with tower instruments. The model airport is located in the northwest corner of headquarters building as reserved for Foreign Nationals training.

In an adjacent room a new, modern Air Route Traffic Control training laboratory simulating two sectors of the Ft. Worth Center is being installed. A remote position completes the laboratory setup expected to be ready for use about Feb. 1.

FOREIGN NATIONALS COMPLETE FIRST EIGHT WEEKS OF AIR TRAFFIC CONTROL TRAINING

Six nations and two hemispheres are represented in the group of Foreign Nationals now training at the CAA Aeronautical Center and shown at left. This group includes Bolivia, Columbia, Honduras, Panama and Venezuela from the western hemisphere, and Japan from the East.

In training since November 6, this class has completed eight of their 22-week course in Approach Control, Airport Traffic Control and Air Route Traffic Control. Under the supervision of W. E. Cruse, Chief, Airways Operation Division, are the instructors, George A. Crowley, from the Jacksonville, Florida Center, and Newell W. Lepeard from the Dallas, Texas Tower.

The 13-Latin American students who arrived here in September for a 9-week orientation period at Oklahoma City University were joined in October by the three Japanese students, bringing the class total to 16 men.

From Japan come Seiji Izumi, a former airlines pilot who has logged more than 5000 hours flying time, Tetsuji Nishigori and Yutaro Kogure. These latter two students were primary flight instructors in the Japanese Air Force and have logged about 2000 hours flying time each. Group leader for the Japanese is Nishigori.

From Bolivia and Honduras comes one student each. Felix Birhuett, Bolivia, was with PANAGRA Airlines for five years and Luis F. Rivera, Honduras, has recently completed a radio operators course at Keesler Field, Miss. Rivera was for 4 years in the Honduras Air Force.

Jose A. Blanco, group leader for the Latin Americans, and Gilberto A. Worthington represent Panama. Worthington earned an Airport Traffic Control Tower Certificate before coming to the States.

Columbia has four students: Mario Arroyave, German Dominguez, Francisco J. Frohard, with 5, 4 and 2 years respectively with AVIANCA Airlines. Victor M. Delgado P. was two years with LANSA Airlines.

The largest number of students in this class comes from Venezuela. These five are all former tower chiefs, having progressed to that position after completing an Air Traffic Control course in Caracas. In addition to chief's duties Alfredo Diaz and Jose Dominguez G. have obtained private pilot's licenses. Cesar Cardozo, Carlos Vera, and Carlos Osorio are the remaining three Venezuelans.

12 REVIEW OF 1950 (Continued from Page 9)

Medical Research Department has devised and developed many advances for safety and operational ease in flying the faster aircraft in civil and military aviation.

Localizing the news scene of 1950 we list these highlights in addition to those in the above.

April The first issue of the **BEACON** appears to chronicle events at the Center. Thus news of prior months necessarily goes unreported.

April-May Medical Research trains 125 Army Air Force personnel. On April 28 the Policies & Procedures Branch graduated its first B-12 class. Flight Navigator Refresher Course.

Facilities Branch plans for first uninterrupted summer training schedule.

Aircraft Services Branch and Aviation Safety Division keep abreast of times with installation of the Sperry Zero Reader in DC-3, N400.

CAA Spring Dance a huge success. Ida Lee Smith is married. CAA Bowlers end highly competitive season.

Flight Inspection initiates test class May 15 in the Jenks' method of flight checking omni-ranges. Adds six to its personnel.

June Aero. Center four years in Okla. City. Teacher training classes start for all instructors. John Kempf married. PMD holds barbeque. Brick chimney struck by lightning. Lila Hampton marries and leaves Center.

Last Philippine Island CAA group finishes training. Aviation Safety supervisory training course held. C-54A hot weather demonstration held by CAA and representatives of Airline Pilot and Air Transport Associations.

July-Aug. Coast Guard men take training in R5D at Center. Aircraft Service puts 'new look' paint job on N100, completes installation of new instrument panel with Parallel Course Line Computer, Sperry Gyro Horizon, PB10 Auto Pilot. Annual leave 'vacation days' dominate the social scene. A.D. Edgerton and family (Facilities) in Salt Lake wreck.

September Training resumes for Alaskan communicators. Night classes held for

Center mechanics. Hail storm strikes and damages CAA aircraft.

Dorothy Nowell married. Flight Operations holds barbecue. Mary Steichen leaves for WAC military duty at Ft. Sill. Hickory Pit barbecue held for all CAA at Center. Harry Donceel leaves for military duty.

October Aircraft Branch gets new Sperry Engine Analyzer. CAA Medical Officers hold conference at Center. Crop dusting studied by Aircraft Branch.

Center people enjoy Lucky 13 Dance at Cedar Terrace. Alice Laird married. Bud Comer. Employees Ass'n prexy marries VA nurse. Miss Corene Lemley. June Donceel leaves. Military duty calls Ralph Gamel. William Eikenberry. Melvin Slone. Dr. Stumm. Shedenhelms in automobile wreck.

November Hundreds of CAA people at Center and in Washington mourn the death of J.H. Washburn. Project Materials Division Chief. The loss was keenly felt and he will long be remembered.

A GOAT AND A SHEEP (Continued from Page 2)

Sheep: Yeah, that would be the best way. But my pop wouldn't get to be a Major.

Goat: Maybe I ought to tell President Truman about my idea.

Sheep: Aw, he probably thought of it a long time ago.

Goat: Well, if he did he's probably got a good reason not to use it. Maybe it's against the rules or something. But maybe he didn't think of it yet. I'm going to write it on a postcard and send it to him.

Sheep: Gee, maybe you'll get a medal!

Goat: Oh, he only gives medals for getting shot, not for having ideas. Besides, I don't want any medals. I'd rather have ideas than get shot.

Sheep: Hey, I see some funny books under that stack of magazines.

Needless to say, the conversation broke up at that point. But my sympathies were very definitely with Goat. How about you? Had any ideas lately? Don't throw them away. You know, you can't tell a freshly mined diamond from a piece of old glass by looking at it. Send your ideas to someone who can properly appraise them. Maybe one will be a diamond, and while you might not get anything for it, even a medal, still there is something very special about the feeling of having given a diamond to someone who needed it.

NEW YEAR'S RESOLUTIONS!



Lanter - 'I'm going to quit smoking'
 McGinnis - 'I'll say yes to everything'
 Forman - 'I'm going to trust everybody'
 Shedenhelm - 'I'll never take another picture'
 Shively - 'Here's the money. Go to town and buy it'
 Smith - 'I'll stay in my office all day, some day'
 Biggers - 'I'll say less and listen more'
 VanWald - 'I'll keep all my appointments on time'
 Gardner - 'I won't let anything upset me'
 Deane - 'I'll sell my rabbits and issue bigger checks'
 Cameron - 'I'll help everybody get a promotion'
 Ebner - 'I'll stop wearing cowboy boots'
 Matthews - 'I'll find time to talk to anybody'
 Ray - 'I'll repair your car myself'
 Jones - 'I think I'll sell life insurance for excitement'
 Coachman - 'I'm going to talk a blue streak sometime'
 Brandenburger - 'Sure, I'll store your furniture'
 Cruse - 'I'll pass along a good joke any day'
 Says 1951 A D - I have a surprise for YOU!



BEACON INTERCEPTS SANTA CLAUS MAIL AND LISTS BELOW UNUSUAL ITEMS

For Murph Shedenhelm: Radar equipment, to be attached to 1950 Mercury for detecting approaching busses.

For Frank Deane: One special monogrammed gold-plated headset for use in operating switchboard.

For Gracie: One way ticket to Alaska.

For Duke: A best seller to read during spare time at the office.

For Mr. Mac: One box of loaded Roi Tans.

For Howard & Loren: An illustrated hunting guide, in colors, for identifying the day's kill.

For Mr. Forman: A 1951 Ford.

For Daisy: One dozen new employees for processing during idle moments.

For Shively: One automatic landing gear for installation on N751.

For Doris: Suggestions on how to be six places at once.

For Willedra: A 24-cup percolator.

Aware of his great capacity for knowing the latest we think that McGinnis knows the identity of 'THE THING'.

FROM THE EDITOR'S MAIL BAG (Printed verbatim)

Drivers' Test There will be another drivers' test scheduled right away --- anyone who drives an automobile without a license is taking a big chance, and it is definitely taboo to **drive** a government without a permit, which means you must have a valid Oklahoma license. If you are interesting in taking the test out here, contact Doris Nichols, extension 47.

Dog Prizes: Frank Deane won some prizes with one of his dogs recently, but I think you can probably get the information more readily than I.



WKY-TV PLUGS CAA IN FILM SERIES FURNISHED BY POLICIES BRANCH

A series of films showing 'How An Airplane Flies' is currently being televised by WKY-TV as a Saturday public service feature. Ted Graber of Policies & Procedures Branch reports. The films were produced by the Shell Oil Co. in conjunction with the CAA and were made available by the Center to WKY in the interest of aviation.

Next showing the second in the series will be given on Dec. 30. Please consult your local newspaper for exact time.

LOCAL INSTRUCTOR MAKES TV DEBUT IN THE INTEREST OF PUBLIC SERVICE

Robert Gardner, Meteorology Instructor for the Airways Operations Branch, was recently interviewed on the Home maker's Helper Show by Tom Paxton of the WKY Television Staff. He presented an excellent dissertation on the weather and some of its vagaries.

When questioned concerning the apparent inaccuracies of weather forecasts he stated that it was really surprising how many times the forecasts actually come true. Jokingly he continued by referring to the penchant exhibited by our fairer sex in dolling up for Easter. He said that even in the Weather Bureau could make accurate predictions for 364 days out of the year, but then missed by forecasting sunshine for Easter instead of rain, the little woman would insist that all forecasts were unreliable.

Mr. Gardner also exhibited a small thermometer before the TV camera. He suggested that each home-maker buy one and mount it on the north side of the house where the sun would not shine on it. This would in most cases prove to be more accurate than calling the Weather Bureau. He maintained that during a clear, calm night the temperature could vary as much as 20 degrees in different parts of the city.

Tornadoes also came in for some discussion. He said that in the event the Weather Bureau saw a tornado, it could broadcast a warning over the WKY Radio Station within thirty seconds. This, no doubt, was reassuring news for most of those who were fortunate enough to see this show.

AMATEUR RADIO CLUB NEWS BEAM ANTENNA STILL GROUNDED

The projected new 14 Mc. antenna for W5PAA still remains a dream, chiefly because Bill Brown, our star welder, and Bob Bond, our spark-plug in the assembling job, have been too busy on other duties.

Other CAA Amateurs contacted during the past month are as follows:

W4PLN, John S. Patrick, Bowling Green, Ky.
W7KUH, Walter R. Marten, Billings, Mont.
W6CKR, Taft Nicholson, Kansas City, Mo.
W6ELZ, Kenneth F. Terry, Hutchinson, Kan.
W6GCL, Lon J. McKnight, St. James, Mo.
W6KRL, Alva L. Frasier, Kansas City, Mo.
W6OHV, Max F. Collins, Dodge City, Kan.
W0VI, Louis E. Potter, Watertown, S. D.

Walter Marten W7KUH in the above list is at the Aero Center attending indoctrination training classes with Class 17.

DATA PROCESSING CENTER *(Continued from Page 1)*

analyze recordings of Army Omnicranges. Tech. Sgt. Henry Patton has been detailed to handle Army processing.

Assisting Mr. McKay as engineering aids are Geo. Preble, Frank Pickens and Donald Knapp, all of whom transferred to the Aero Center during the past month. The Processing Center is housed on the upper floor of Building 193, just north of the Aircraft Branch quarters.

ICAO OFFICIAL FROM CANADA VISITS CENTER

C. Clarke, Chief of Personnel Licensing and Training Section, ICAO, Montreal, Canada, is visiting the Airways Operations Branch, for the purpose of studying the training facilities for Air Traffic Controllers. His department is preparing a series of training manuals covering various phases of Aircraft and Airways Operations.

Lake Littlejohn with the International Region, CAA, visited Airways Operations Branch Nov. 30, 1950.

HUNTING NEWS DOMINATES WINTER SPORTS SCENE

Mr. Peterman, Aircraft Materiel, has returned from his annual deer hunt, but no deer. It seems he had a little hard luck. He had mentioned they would have to take a wagon and team to get into some of the places he wanted to hunt but apparently, he took his car into one or two of his hunting spots. A miscue bent his running board and mashed a fender. Better luck next year Pete.

Travis "Pop" Lee and Clyde Daniels of the PMD Engineering Branch were quite successful on a recent hunt in Texas. They also returned with proof that Texas sometimes is larger and better. The proof is two rattlesnake rattlers, one with 16 rattles and the other with 11 rattles. The two snakes were killed during a hunt on a 17 section ranch near Aspermont, Texas. The two hunters were accompanied on the hunt by Mr. Joe Rash, foreman of the huge ranch.

Howard Wilson reports that he bagged 8 quail on a recent hunt in Dewey County. Mr. Wilson reports he hunted on Saturday.

Lewis Jackson, Eddie Dotson, and Clyde Daniels of PMD are using young bird dogs this season. Their doting stories will amaze you, but not as much as "Pop" Lee's story of a Tomcat he used on a recent hunt in Texas. According to "Pop" the talented cat points and retrieves quail along with the best of bird dogs.

* * * * *

Though CAA does not have their own bowling league this year, there are a number of our employees bowling in various leagues in the city. December 4th through December 10th there were teams, doubles, and singles bowling in competition. Many CAA employees entered the City Tournament in various events and several were in the money.

Lyla B. Fisher, Medical Division, has her right hand in a cast again as the result of an injury which has failed to clear up properly. Hope it won't be for long, Lyla.



FACILITIES BRANCH MAKES MERRY WHEN JAPONICA CLUB STAGES ITS CHRISTMAS PARTY

In a holiday setting and a holiday mood the men and women of Facilities made merry on Saturday evening last week when the Facilities wives' Japonica Garden Club staged its second Christmas party in the City's Garden Club house at Will Rogers Park.

As she entered, each lady was presented with an attractively designed corsage made especially for the occasion by Mrs. Claude Gardner. The men were invited to donate 50 cents each as a gift to the Crippled Children's Hospital for use in buying supplies for the institution's occupational therapy enterprise. Poems, composed to fit the program, were read to the merriment of all, and Master of Ceremonies J. T. Cupp kept the program rolling along. There were games and the singing of Christmas carols. Coffee and cake was served late in the evening. The near forty people attending were hearty in their praise to the efforts of the planners who included Mesdames J. McCown, R. Swinney, F. Smith, C. Wallach, J. Cupp.

One of the special poems was read by Bob Lee and follows in part:

THE NIGHT BEFORE CHRISTMAS

'Twas the Chris before nightmas the house all
when through,
Not a streature was cirring, not even a mouse.
The Nicholas were hung by the chimney with
care
In hopes that St. stockings soon would be
there.
The sugarplums were sestled all nug in their
beds
While visions of children danced in their
heads. And Mama in her kerchief and I in
my cap
Had just settled down for a long winter's nap
When out on the cawn there arose such a latter
I sprang from my bed to see what was the matter
Away to the window I flew like a lash, Tore
open the hutters and threw up the fash.
The moon on the breast of the new fallen snow
Gave a luster of midday to objects below
When what to my wondering sleigh should appear
But a miniature eyes and eight tiny reindeer.

Did you know that as we go to press we have written 2350 Purchase Orders since July 1? Did you know that a large corporation figured the cost of processing a purchase transaction both large and small at \$8.00? Don't you think such a figure would also be applicable to our own procurement transactions? So, fellows, let's see what we can do this next half to cut this figure by 50% — instead of reaching for the nearest 215 let's give our requirements the benefit of a little advance thinking for after all — we pay quite a premium for our failure to plan.

Andy says, I can't figure out the aversion a lot of our requisitioners have to formal advertising — seems to me they would rather have it that way on this unsettled market. A formal contract is worth a hundred open-market deals when it comes to enforcing delivery — I have found on many occasions that the vendor who just can't deliver finds he can deliver pronto after I call his attention to that fine print.

BOY SCOUTS ASK FOR HELP IN COLLECTING PAPERS AND MAGAZINES

Boy Scouts of Troop 89 here at the field will be glad to turn your old newspapers and magazines into money for camping equipment. If you will bring them to the Credit Union and leave them with Bob Gardner, the Scoutmaster, he will take them into Oklahoma Scrap Paper Co. whenever a load has accumulated. The building will be unlocked any workday after ten o'clock. No need to wait until you have a truck load, any time you have an armload just bring them along and we will do the rest.

Troop 89

NEED ANOTHER TELEPHONE DIRECTORY?

A number of additional copies of the recently issued Center telephone directory were printed and extra copies may be secured by request to Doris Nichols AC 617 Ext. 47.



SAFETY ALWAYS PAYS - A REMINDER FROM THE MEDICAL DEPT. OF EVERYDAY DANGERS

It was only a little scratch — a hastily applied dab of iodine should do the trick. The iodine was applied and the workman (we'll call him Mr. X) went on about his business.

This happened on Friday afternoon. Sunday chills, fever, and a general achey sensation began to spoil a pleasant evening. During the night none of the family slept much. Mr. X was definitely very ill and he noticed his thumb beginning to throb and hurt. Ugly red streaks were running toward his elbow.

Monday morning he called at the CAA Medical Clinic and was promptly dispatched to a doctor. To make a long story short, he spent several very uncomfortable days in the hospital with a history of hot packs on his finger and various shots. Mr. X was thoroughly miserable. His family was very anxious, wondering if he would lose a finger or even his life from blood poisoning — his fellow workers were unhappy. They were fond of Mr. X, and too it meant added work for those in his Department.

This is no criticism of Mr. X. None would have thought just a very slight scratch would cause the pain, the loss of time, expense, and concern which it did. But it is another example of the fact that SAFETY ALWAYS PAYS. A few minutes at the CAA Medical Dispensary for proper cleaning and dressing of the wound might have prevented all this.

Y is a good-looking lad — quite typical of healthy young American manhood. The day was full — there was much to be done. Too quick a turn round the corner on a load of lumber too hastily stacked on the truck was responsible. As they rounded the corner the lumber slipped. So did Mr. Y, falling to the gravel road and striking the side of his face.

Result? Two stitches near his eye and quoting a fellow worker: "He looked like he had been in a fight with a bear." He was badly cut, scratched, and bruised with gravel deeply embedded in the side of his face. A few extra minutes to stack the load more carefully — a bit less speed rounding the corner would have saved many, many times the loss in time, physical pain, and expense.

Somehow the goggles had been misplaced and anyway it was only a very small job — cutting the metal tube would take only a minute. But in that minute a piece of steel somehow hit the workman in the eye. It was too deeply imbedded in the cornea for removal in the clinic.

(See Page 18) SAFETY ALWAYS PAYS

NOTES FROM SUPPLIES AND SERVICES

We welcome Mrs. Virginia Anders who comes to us from the Lone Star State where she was connected with the Commercial Credit Corp and American Airlines. She will occupy the spot recently vacated by Trudy Black.

The present international crisis is really making itself felt in the Contract and Orders Unit. Chief Storekeeper Brown is on a temporary tour of duty at the local Naval Training Center. And now Chief Yeoman Smith receives orders to report for another physical. Flash! Smith has passed the physical and leaves Jan. 15. Hurry back both of you guys - we want to maintain our procurement schedule over in your corner! Incidentally we wish to thank all of those from other sections who have pitched in and helped us over the hump.

Paul Shively recently had the pleasure of accompanying Mr. McCabe of the Aircraft Materiel Section on a cross-country flight to Sheppard Field and return in a cub.

It is rumored that Ed Frame, rabbit merchant, is in the hands of the receivers.

Esther Woods is happy again. Her six months supply of forms has arrived from Washington.

MERRY XMAS FROM ALL OF US

DIAPER NEWS - NOT TWINS

To Mr. and Mrs. Walter Zuhn, Facilities Branch, a second son, Christopher Paul, was born at 5:37 p.m. on the afternoon of Monday, Dec. 11. All is well and to them go hearty congratulations. The name Christine Carol was left unassigned. The Zuhns anticipate moving into their new home soon at 2316 N. Warren Avenue.

NEW CARS AT FACILITIES BRANCH

M. E. Eisenbach, Radar Chief, last month became the owner of a new Power Glide Chevrolet.

J. T. Cupp, Jr., ILS/VOR Instructor, is driving nothing less than a new Oldsmobile 88. Said Jake on that evening two weeks ago, "Aw, it's nothing but a hot rod."

Clements, ILS/VOR Instructor who recently joined the staff is driving a late model Plymouth.



NEW CENTER EMPLOYEES

November 17 December 13 1950

Mrs. Anne W. Lawrence	Airways Operations Branch
Francis T. Pickens, III	Facilities Flight Inspection Branch
Donald P. Knapp	
Mrs. Mary R. Clapp	
Edgar F. Paski	
(Transfer from Region I)	
William J. Rosenberry	Facilities Branch
Pat J. Lindsey	
Mrs. Kate P. Hawkins	Aircraft Materiel
Albert E. Denny	
Sidney L. Mann	Project Materials
Neilan J. Cole	
Mrs. Virginia I. Anders	Supplies and Services Section

SEPARATIONS

Mrs. Muriel A. Moss	Facilities Flight Inspection Branch
Mrs. Betty R. Foster	Airways Operations Branch

AIRCRAFT MATERIEL

The latest we have on Alfred Bone, one of General Services Branch Storekeepers, is the day he started to butcher a hog he had been feeding corn daily to fatten for the kill. What should happen when he is ready to butcher has the water boiling and everything ready to go? She is going to have little ones. It seems that Mr. Bone had been feeding her before daybreak in the morning and after dark at night, consequently did not realize her condition. That's one sow who saved her life.

Ann Martin informs us she has purchased a piece of an airplane; however, she doesn't know what piece. Happy Landings, Ann.

If a man empties his purse into his head, no one can take it away from him. An investment in knowledge always pays the best interest.
Franklin

TRAINING DEPARTURES

DME CLASS NO. 2 - 10/2/50-12/8/50

REGION 1

Kooker, Walter La Guardia Field, N.Y.

REGION 2

Catron, M. M. Chattanooga, Tenn.

Greenamyer G.T. Jr. Miami Fla. OFACS

Tyler, R. S. Atlanta, Ga.

REGION 3

Bowen, L. E. Chicago, Ill.

Hershberger, Glenn Goshen, Ind.

REGION 4

Clelland, L. M. Marfa, Texas

Gullberg, H. E. Midland, Texas

Holtke, E. J. Fort Worth, Texas

Swenson, H. T. Palacios, Texas

REGION 5

Crow, Robt. W. Kansas City, Mo.

Polking, Urban H. Kansas City, Mo.

REGION 6

Rarer, E. B. Los Angeles, Calif.

REGION 7

Blucher, Ralph Whitehall, Mont.

Fischer, Geo. Seattle, Wash.

Layton, John Seattle, Wash.

Lindberg, David Ephrata, Wash.

Townsend, John Bellingham, Wash.

REGION 8

O'Brien, E. L. Gustavus, Alaska

SECOND COAST GUARD PLANE COMMANDER
COURSE COMPLETES TRAINING

11/27 - 12/15/50

Childers, Earl S. Lt. jg Brooklyn, N. Y.

MacLane, Gordon H. LCDR So. San Francisco, Calif.

Oliver, David Lt. Elizabeth City, N.C.

Young, H. W. Lt. Elizabeth City, N. C.

Did you hear about 'Little Annie' Aircraft Materiel's new addition? It seems the mice were gaining ground so a kitten was brought to the office. Since our own Ann Martin is such a cat lover, we just naturally called our kitten 'Little Annie' but Annie doesn't live here any more. It seems she caught her mice, so she was taken home by one of the employees. Course, too, there are a number of non cat lovers in Materiel.

FACILITIES GARDEN CLUB

SEEKS NEW MEMBERS

The Japonica Garden Club unit wishes to extend a cordial invitation to the wives of new Facilities instructors to attend club meetings held the third Wednesday afternoon of each month. Anyone interested may contact Mrs. Robert W. Swinney, Sec'y., Phone 58 7791, or Mrs. Robert S. Lee, Phone 62-8346.

PROJECT MATERIALS DIVISION

Sorry to hear Mrs. David Moore has been on the sick list. Moore is with the PMD.

Clark Affleck, Assistant Chief of PMD, is looking for a house and a tenant. Affleck owns a home in Los Angeles and rents one in Oklahoma City; however, he has been notified by his landlord that his home has been sold and that he must move. The next day Affleck received notice from his tenant in Los Angeles that he is moving. He now needs a home and a tenant.

If you know of a modern 3 bedroom house for rent, please call Affleck (62-4432, Ext. 19).

SAFETY ALWAYS PAYS

(Continued from Page 16)

An eye specialist removed it but the scar remains and the vision is impaired. A pair of goggles, as provided for use in cutting metal would have avoided the injury.

These are all true case histories — just three of the many we see at the Medical Clinic every day.

Use every precaution to avoid accidents. If you do happen to have one, call at the Clinic for first aid. This will not always avoid further trouble, but in most instances it does. The Medical Facility is provided for your benefit. USE IT and save yourself much discomfort, your organization the loss of time, and help us build up an impressive Safety Record.

Remember — SAFETY ALWAYS PAYS.

The wise carry their knowledge, as they do their watches, not for display but for their own use.
Y. F. Trew

AVIATION SAFETY

During the month of November, the following Aviation Safety personnel attended various refresher courses.

WASHINGTON

Bosari, George
Boudwin, J. E.
Burton, Ernest W.
Mitchell, Hugh B.
Keeley, Roy

REGION 1

Bard, Robt. E.	Allentown, Pa.
Fiedler, Wm. F.	Alexandria, Va.
Gibson, John L.	Roanoke, Va.
Haniquet, E. F.	Jamaica, L.I., N. Y.
McClintock, J. M.	Camden, N. J.
Newman, E. O.	Boston, Mass.
Proctor, Robt. A.	Camden, N. J.
Honey, K. T.	New York, N. Y.
Smith, H. G.	Jamaica, L. I., N. Y.

REGION 2

Farmer, W. O.	Atlanta, Ga.
Harrison, C. S.	Raleigh, N. C.
Richardson, R. W.	Winston Salem, N. C.

REGION 3

Christensen, Geo.	Milwaukee, Wisc.
Curry, R. J.	Middletown, Ohio
Dye, Thomas H.	Indianapolis, Ind.
Meyer, R. R.	Chicago, Ill.
Murchison, G. M.	Chicago, Ill.

REGION 4

Davies, C. R., Jr.	San Antonio, Texas
Hutchinson, Robt. B.	Dallas, Texas
Hutton, Robt. C.	Fort Worth, Texas
McCrackin, T.W., Jr.	Albuquerque, N. M.
Matula, S. C.	Fort Worth, Texas
Watson, J. T.	Tulsa, Okla.

REGION 5

Annis, J. T.	Denver, Colo.
Boston, R. F.	Kansas City, Mo.
Cantrell, F. E.	Cedar Rapids, Iowa
Holloway, K. J.	Kansas City, Mo.
Hudson, J. W.	Kansas City, Mo.
McKay, C. A.	Kansas City, Mo.
Templeton, J. L.	Kansas City, Mo.

REGION 7

Beyer, R. F.	Spokane, Wash.
Gillis, Wilson	Spokane, Wash.
Jones, R. L.	Seattle, Wash.
Mugge, L. C.	Seattle, Wash.
Odom, J. D.	Seattle, Wash.

REGION 9

Capp, Wm. C.	Honolulu, T. H.
--------------	-----------------

INTERNATIONAL REGION

Helfert, H. W.	Washington, D. C.
Nelson, L. A.	Minneapolis, Minn.

* * * * *

TRAINING DEPARTURES

INDOCTRINATION TRAINING CLASS NO. 14
9/11 - 12/1/50

REGION 3

Crary, Walter A.	Lodi, Wisc.
DeZoute, Oliver J.	Sheboygan, Wisc.
Eastlund, P. C.	Bismarck, N. D.
Peterson, P. D.	Cincinnati, Ohio
Skon, Paul R.	Redwood Falls, Mont.
Widmayer, Lloyd B.	Cleveland, Ohio

REGION 7

Willey, Harolow R.	Yakima, Wash.
--------------------	---------------

REGION 8

Brown, Hugh G.	Woody Island, Alaska
Boothe, Elden T.	Summitt, Alaska
Bower, R. B.	Nome, Alaska
Hall, James R.	Annette Island, Alaska
Wane, Wm. M.	Nome, Alaska

INTERNATIONAL REGION

Aslanidis, John	Greece
-----------------	--------

* * * * *

TRAINING ARRIVALS

ILS/VOR CLASS NO. 20-12/4-3/2/51

REGION 2

Cooper, Richard G.	Mobile, Alabama
Manley Hopkins K.	Griffin, Ga.

REGION 3

Wright, Robt. E., Jr.	Lansing, Mich.
-----------------------	----------------

REGION 4

Compton, John C.	Shreveport, La.
Cook, Homer A.	Terminal, Texas

REGION 5

Costner, Ross J.	Wichita, Kan.
------------------	---------------

REGION 6

Callahan, Wm. M.	San Leandro, Calif.
Higgins, P. B.	Salt Lake City, Utah

REGION 7

Ketterling, Elmer R.	Spokane, Wash.
Wiseman, J. S.	Bellingham, Wash.

* * * * *

TRAINING ARRIVALS

INDOCTRINATION TRAINING CLASS NO. 17
12/4 - 2/23/51

REGION 1

Levine Max Boston, Mass.

REGION 2

Bradley Wm. H. Atlanta Ga.
Hicklin, W. H. Atlanta Ga.
Mallory Kenneth T. Savannah, Ga.
McKay E. W. Jr. Atlanta Ga.
Watford Jack L. Pensacola, Fla.

REGION 3

Castellucci Frank C. Dayton, Ohio
Olseen Eric E. Cleveland, Ohio
Quitter W. M. Cincinnati, Ohio
Wood Eldon E. Fort Wayne, Ind.

REGION 4

Chapman, Carl W. Lubbock, Texas
Rivers Marion D. Okla. City, Okla.

REGION 5

George John E. Pueblo, Colo.

REGION 6

Robinson Wm. H. Salt Lake City, Utah
Woodruff Harold E. Oakland, Calif.

REGION 7

Larkin L. M. Ephrata, Wash.
Marten Walter R. Billings, Mont.

REGION 8

Mitchell R. H. Anchorage, Alaska
Parris Leroy S. Anchorage, Alaska
Simcox Wm. A. Anchorage, Alaska

INTERNATIONAL REGION

Behrens Pedro E. Venezuela
Columbia

TRAINING ARRIVALS

DME CLASS NO. 3n- 12/11/50-2/16/51

REGION 1

Brussel Eugene H. Jamaica L.I. N. Y.
Keys C. A. Largo Md.
Gelernter Boaz New York, N. Y.

REGION 2

Kramm Herman L. Nashville, Tenn.
Ladzinske, R. W. Atlanta, Ga.
Lester Edgar B. Atlanta, Ga.
Wilson Perry L. Jacksonville, Fla.

REGION 4

Ellison Geo. E. Tulsa, Okla.
Fortenberry R. E. El Paso, Texas
Hulbert, Geo. E. El Paso, Texas
Kolodzie, Stanley San Antonio, Texas

REGION 5

Sharp, Warren C. Kansas City, Mo.

REGION 7

Canning, Francis Portland, Ore.
Daugherty, Leon C. Dubois, Idaho
Fender Keith Seattle, Wash.
McCarty, Daniel Seattle, Wash.

REGION 8

Bradford, John M. Anchorage, Alaska

TRAINING ARRIVALS

RADAR AIDS CLASS NO. 8-11/27/50-3/2/51

REGION 1

Barth, Jack E. Jamaica L.I. N. Y.
Hyatt, Milton Idlewild Airport, N. Y.
Parszik, Paul J. Jamaica L.I. N. Y.
Ross, H. Jamaica L.I. N. Y.
Sommerfield, Edward H. Idlewild Airport, N. Y.
Steinberg, A. A. LaGuardia Airport, N. Y.
Tully, Paul P. Logan Airport, Boston, Mass.

REGION 2

Lawrence, Kelsie E. Atlanta, Ga.

REGION 3

Barrows, Merrill G. Columbus, Ohio
Blakie, Gene S. Covington, Ky.
Brown, Richard W. Columbus, Ohio
Feldman, T. L. Covington, Ky.
Hendricks, Clement E. Covington, Ky.
Kulczycki, Edward Columbus, Ohio

REGION 4

Bratton, Beverly J. New Orleans, La.
Kostelnik, James C. Houston, Texas
Morgan, Carl N. New Orleans, La.

REGION 6

Horn, Francis H. Los Angeles, Calif.
Simmons, K. F. Los Angeles, Calif.

REGION 7

Taylor, Marvin A. Seattle, Wash.

REGION 8

Edlund, Robt. W. Anchorage, Alaska
Green, W. G. Anchorage, Alaska
Manuel, Wendell O. Anchorage, Alaska

INTERNATIONAL REGION

Pol, P. Edgar Bolivia, S. A.



The dress that worries a man most is the one
doesn't like -- after she has paid for it!

What's a flood?

A river too big for its bridges.

Freckled, shaggy-haired, the gangling young
mountaineer entered the general store, plunked
down a dollar and a half and said to the lady
clerk: 'The girl my cousin's marryin' tomorrow
wants a pair of nylon stockin's, size 9, to wear
to the weddin'. 'What gauge?' asked the clerk.
'Gauge?' he echoed blankly. She didn't say
ma'am, but her pap's old shotgun looked like a
twelve-gauge--if that'll help.

Kate: 'Why did you stop going out with that
checker champ?'

Sally: 'He was always trying to get me in a
corner.'

A lot of motorists could afford to be a little
more superstitious -- believe in signs, you
know.

Bride: (reading an oddity): 'It says here
that in India a man does not know his wife
until they are married.'

Groom: 'That ain't the only country.'

A cynic is a man who knows the price of every-
thing and the value of nothing. *Oscar Wilde*

An income is an amount of money which always
turns out to be a little less than your ex-
penses.

The best way to save face is to keep the lower
end of it closed.

A jury consists of twelve people who determine
which side has the best lawyer.

Perfume salesgirl to blonde:

'Just a word of advice, honey -- Don't use this
stuff if you are only bluffing'

Louse: Fellow who would marry Lana Turner for
her money.

A generous tipper at a hotel found a new
waiter serving him breakfast one morning and
said: 'Where's my regular, that boy called
Mose?'

New Waiter: 'Boss, Mose ain't serving you no
more. I won you in a crap game last night.'

People seldom improve when they have no other
model but themselves to copy after. *Goldsmith*

Driving Hint:

Always blow your horn at a railroad crossing
You never can tell what those crazy engineers
will do.

Mary had \$3.00 lamb,

Plus wine and rich dessert,

Then handed me a wrong address

The dirty little flirt!

'Grandpa, why don't you get a hearing aid?

'Don't need it son. Hear more now than I
understand.'

Texan (boasting about heroes of the Alamo)
I'll bet you never had anybody so brave around
Boston.

Bostonian: 'Did you ever hear of Paul Revere?

Texan: 'Wasn't that the guy who ran for help?'

That which is past is gone and irrevocable, and
wise men have enough to do with things present
and to come. -- *Bacon*