

THE WINGFOOT CLAN

GOODYEAR ATOMIC CORPORATION
A Subsidiary of THE GOODYEAR TIRE & RUBBER COMPANY

VOLUME VIII

PIKE COUNTY, OHIO, WEDNESDAY, JULY 19, 1961

NUMBER 20

Headquarters In X-746 Building

Plans Complete For Semi-Annual Visit Of Regional Bloodmobile

July 25 and 26 are the dates for the next visit of the Huntington Regional Bloodmobile to plantsite. Bloodmobile headquarters will be the X-746 Building.

This semi-annual visit is vital to every Goodyear Atomic employee. The continuation of the GAT Blood Bank depends upon the success of each visit of the Bloodmobile. The Huntington Regional Blood Center has notified participating agencies of the importance of meeting quotas for the coming year. Goodyear employees are urged to keep their donor appointments.

Since the days of antiquity mention of blood has always made a deep impression on people. The Jewish historian Josephus mentions blood repeatedly, and the Scriptures contain more than three hundred references in one sense or another spiritual, hereditary, or physiological. Frequent allusions to blood in the literatures of many nations through their recorded history are attributable to its dramatic implications. Little was known about the composition or function of blood until such discoveries as its circulation by Harvey in 1628, and its four main groups by Landsteiner in 1901.

Your Responsibilities While Driving

The safety department has recently investigated a number of auto accidents which have indicated that some GAT employees are not fully aware of their driving (AEC vehicles) responsibilities.

The regulations for driving an AEC vehicle are outlined in detail in Standard Practice Procedure No. B-1. Perhaps it merits repeating to all employees. This procedure states specifically that all accidents, regardless of how minor, MUST be reported immediately to the employee's supervisor. If an accident occurs off the plantsite, the proper civil or state highway authority must be notified.

Following an accident, Motor Vehicle Accident Report Form AEC-271 must be completed and forwarded, through departmental supervision, to the safety department. The safety department will then prepare the necessary reports for AEC and the Registrar of Motor Vehicles for the State of Ohio.

Usually the sight of blood or the loss of blood has been associated with tragedy and death. Now, in the light of modern knowledge, as blood is used by physicians to alleviate human suffering, this traditional attitude is disappearing and blood is considered an instrument for saving human life.

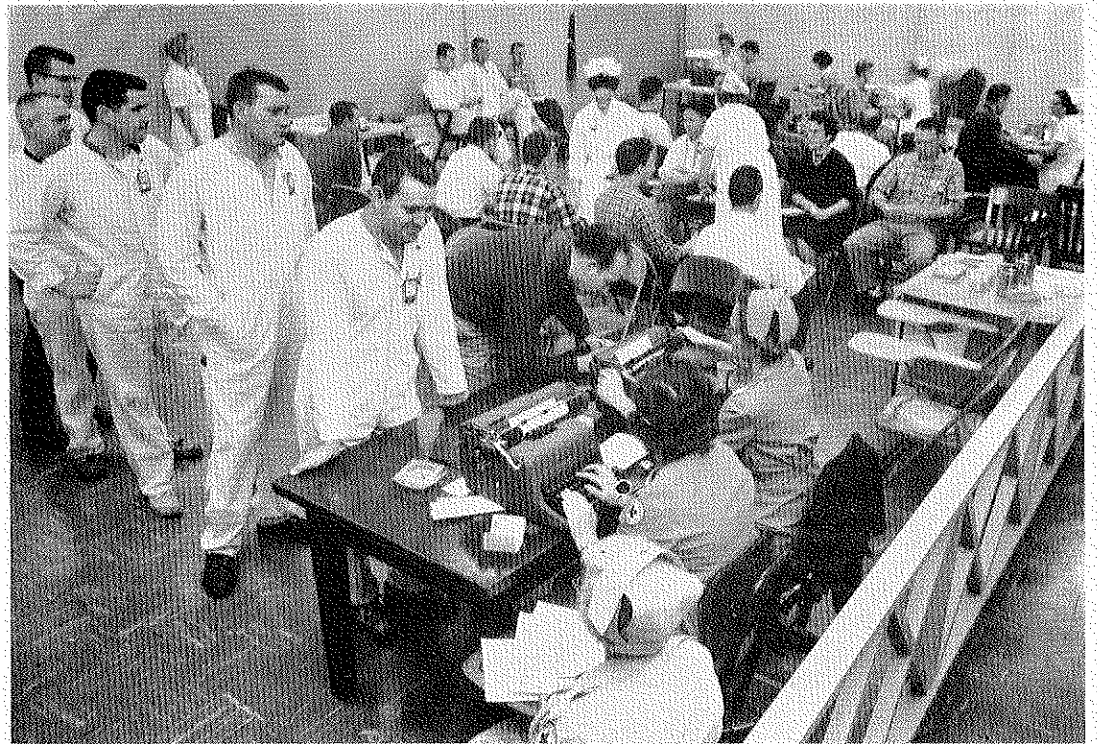
This year, 1961, the Huntington Regional Blood Center is celebrating its Tenth Anniversary. In December, 1951, the President of the United States directed the Office of Defense Mobilization to establish an integrated program to meet the nation's requirements for blood, blood derivatives, and related substances. In effect, this Executive Order classified blood as a critical national resource related directly to the establishment of a National Blood Program. Its purpose is to coordinate the resources of all interested organizations and agencies to the end that duplicated effort and conflicting interests will be eliminated in the accomplishment of its objective.

This year an expanded blood program is underway to make blood available to more people than ever before. As a first step, a new regional blood center in Puerto Rico will serve the Virgin Islands.

Blood Program research will be accelerated, including the location and ready provision of bloods of rare type. Research will be conducted also in the preservation of whole blood to extend its usefulness for months or years, in the identification, analysis, and separation of new blood fractions, and in the improvement of existing fractions.

As another reminder to GAT employees . . . The Pike County Chapter of the American Red Cross, under which the GAT Blood Bank operates, has been assigned a quota of 800 units of blood as their participating share for the year. The GAT Blood Bank participates in the Pike County Blood program. So GAT employees have a responsibility to see that Pike County meets this quota. **EMPLOYEES SHOULD ALWAYS REMEMBER . . . Without A Program In Pike County There Would Be No GAT Blood Bank!** The GAT Blood Bank is available to every member of the employee's family if the need arises. It also includes the employee's father and mother, father and mother-in-law, or anyone who is a permanent resident in the same household with the employee.

Don't Forget Your Blood Donor Appointment



THESE EMPLOYEES REMEMBERED. The above scene will be repeated July 25-26 when the Huntington Regional Bloodmobile makes its semi-annual visit to GAT. The employees pictured above were among the 245 donors recorded during the January visit. May we count on you to keep your appointment next week?

DID YOU KNOW?

That fifty-five percent of blood volume is composed of plasma, which consists mainly of water, some proteins, and the various mineral salts necessary to life.

That the average healthy individual has a blood volume equal to about 8 percent of his body weight.

That Plasma is the fluid part of the blood in which the red cells, white cells, and platelets are suspended.

That Plasma is separated from whole blood by allowing the red cells, which are heavier, to settle to the bottom of the blood-collecting bottle.

That red cells are small, solid, disc-shaped particles whose main function is to transport oxygen from the lungs to the tissues, and to transport carbon dioxide from the tissues to the lungs.

That white cells are the protective cells of the blood stream.

That blood groups are inherited patterns into which human blood may be divided for scientific purposes. There are four major blood groups: A, B, AB, and O.

Third Annual Management Conference Now In The Planning Stage

The Third Annual Portsmouth Management Conference is scheduled for Saturday, December 2, 1961 at Portsmouth High School.

Two planning meetings have been held to date with the third meeting set for next Tuesday, July 25.

Goodyear Receives Missile Contract

A \$3,137,530 contract for a continuing series of modifications of the TM-76A MACE missile has been awarded by the Air Force to the Goodyear Aircraft Corporation.

The modifications and improvements are being performed to maintain the effectiveness of the missile.

Goodyear Aircraft Corporation supplies the missile's ATRAN guidance equipment . . . a self-contained, radar map-matching system developed and produced by the Company. It is unique in that it can control missile maneuvers during flight without ground or air control of any kind subsequent to launching. Turns and banks are programmed into the system.

One of the improvements in the guidance equipment is a new rapid fire multiple launch system which will make possible the firing of sev-

The conference is sponsored by the Detroit Steel Management Club in cooperation with other area industries. The past two conferences have proved to be very popular. The first year approximately 375 were in attendance. Last year the attendance increased to over 500.

Attending the initial meetings were the following employees and the company they represented: M. Torrence, General Telephone Company; George Brown, Williams Manufacturing Company; B. V. Adams, H. Pettie, F. D. Hyland, Goodyear Atomic Corporation; Elmer Coleman, Charles Bowman, Harbison-Walker Refractories Company; W. T. Smith, Ohio Power Company; Stan Van Karsen, Standard Oil Company; William J. Quinn, Alf Millard, Detroit Steel Corporation.

Four nationally known speakers have been scheduled to lecture to the participants. Biographical sketches of the speakers will appear in a later issue of the *Clan*.

eral MACE missiles in less time than it previously took to fire one.

The TM-76A MACE, successor to the earlier Matador tactical missile, has been operational in Europe since 1959. It can deliver either nuclear or conventional warheads.

Patience Above All

Unique Hobby Involves Many Tedious And Persistent Hours

Nickelodeons and Automatic Music Makers of the early 1900's are fast becoming museum pieces and collector's items. These remain alive today only in the hands of a dozen or so museums and approximately a hundred collectors.

Included among the collectors are Morris G. Moses, plant engineering, and his wife, Lucille, who live in Portsmouth.

About six years ago Mr. and Mrs. Moses were on vacation and their travels took them to San Francisco, California. They visited one of the city's museums where many of the old music makers were on display. Perhaps it was the visit to the museum or the fascination they felt for the "rinky-tink" music of an old foot pedal player piano; at any rate it was the beginning of the Moses' unique hobby . . . that of collecting and restoring to good condition player pianos and nickelodeons.

These music makers came into being shortly after the turn of our present century. These were very popular until the late twenties. The depression, coupled with the advent of the radio and phonograph, just about destroyed all vestiges of the old paper-roll music makers.

"Without a doubt," said Moses, "the most fascinating aspect to our hobby is the search and restoration of the machines. Locating some of the machines have involved months of effort and included many miles of travel. In some instances we were just a step ahead of another collector."

Each machine requires a different type roll. These are no longer manufactured and the search for rolls parallels the search for machines . . . in that one never knows what will turn up next.

Restoring the machines involves many varied arts . . . woodworking, metal and gear machining, and the replacement of hundreds of feet of dried out rubber tubing, and at times bits of old leather of various types.

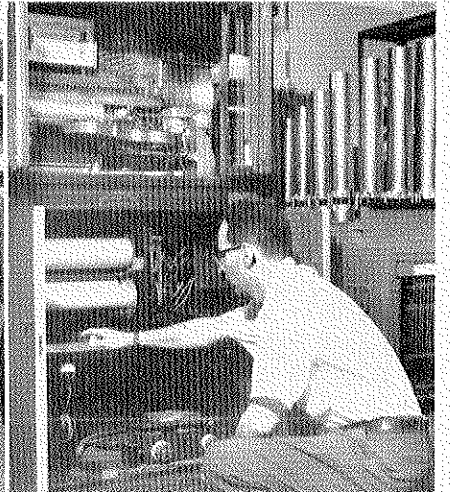
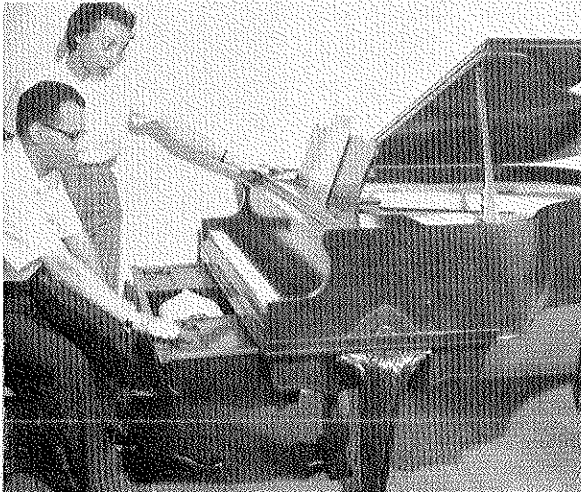
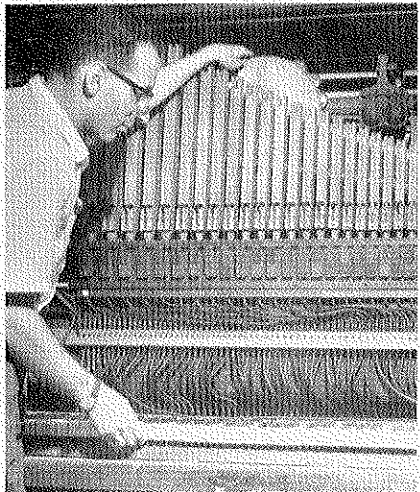
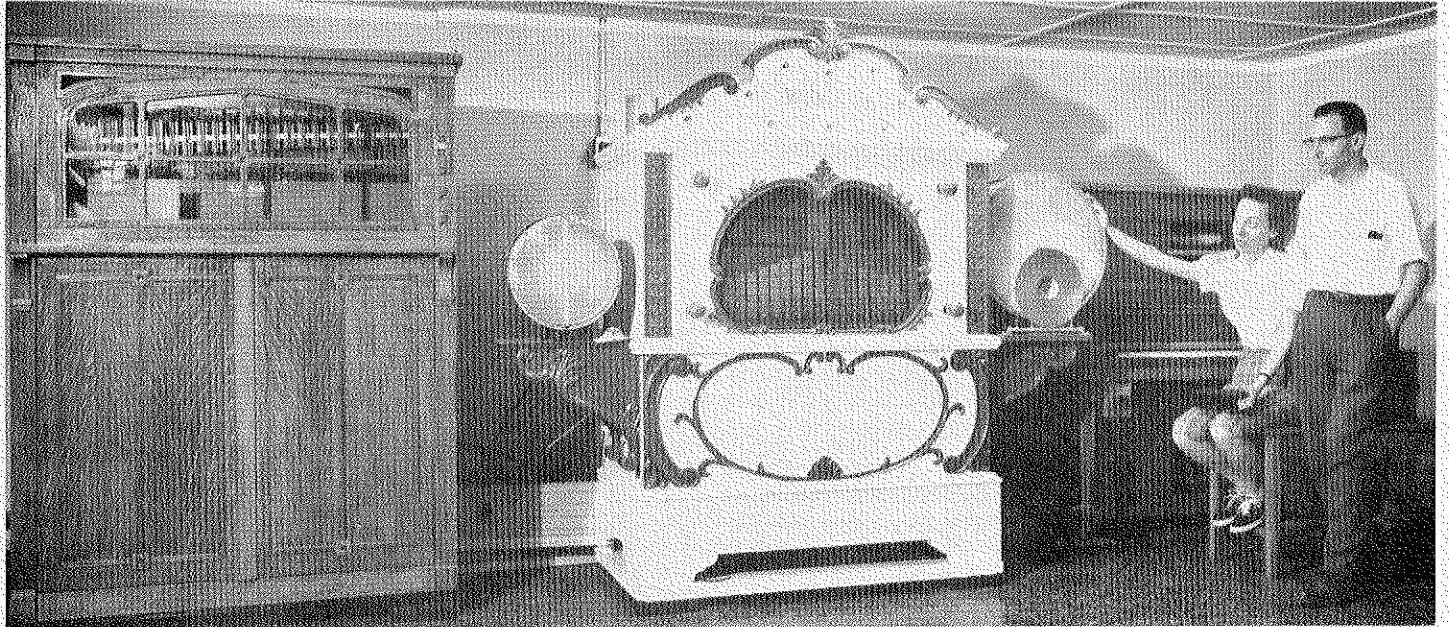
Unfortunately, many of the parts are no longer available but this poses no serious problem for Moses. The basement of his home is equipped with a small machine shop where he makes the needed repairs.

At the present time the Moses' have six machines in working condition . . . the Mills Violano-Virtuoso, Tangley Air Calliope, Link Piano-Mandolin-Xylophone, Marshall-Wendell Baby Grand Expression Reproducing Piano, the Wurlitzer Band Organ, and the Baldwin Player Piano. Another coin operated musical instrument, the Cremona, is being restored.

Mills Violano-Virtuoso

This machine, invented around 1910, automatically plays a violin to the accompaniment of a 44-note piano and was invented by Henry Sandell, an electrical engineer who had over 110 patents to his credit.

Put Another Nickel In In The Nickelodeon



MUSIC . . . Music . . . Music . . . everywhere. When it comes to automatic music makers Mr. and Mrs. Morris G. Moses can offer you several variations. The above photographs show some of the instruments they have acquired since beginning their unique hobby nearly seven years ago. Top row from left are: the Link Piano-Mandolin-Xylophone, Wurlitzer Band Organ, and the Baldwin Player Piano. Pictures in the lower group are l to r:

The basic principle is about the same as present day IBM machines. As the paper roll in the bottom of the machine goes through a roller, little wires find their way through the paper wherever a hole appears and trigger electromagnets which finger the violin and strike the piano keys. Four rotating bow-wheels vibrate the G, D, A, and E strings. The company which made this machine now manufactures automatic coffee vending machines.

When first discovered near Toledo, Ohio, the machine did not play. It had been partially under water. It was completely rewired by the Moses. The wiring diagram which they derived has recently been loaned, upon request by the curator, to the Henry Ford Museum, as the Museum is now in the process of repairing a duplicate machine.

Tangley Air Calliope

This machine contains 43 whistles and operates from a 10-tune roll. It was built in 1923.

The Calliope is a very popular machine for carnivals. It is often used to attract crowds for political campaigns, festivals, etc.

It is driven by a 1½ horsepower motor-compressor. The machine can be heard for several blocks and must be "regulated down" in volume to keep peace in the neighborhood.

The term Calliope is Greek and means "beautiful voice." The sound is familiar to southern Ohio residents who occasionally hear the Calliope's cousin . . . the steam Calliope.

The Moses purchased this machine from an amusement park owner in Chicago, who was only too happy to take the money for what was, in his opinion, a pile of junk.

Link Piano-Mandolin-Xylophone

The Link machine plays fifteen tunes from one continuous roll. It was built about 1923. It requires a nickel every time a tune is played. Historically, it was made by the Link Piano Company, forerunner to the present day Link Aviation Company, makers of the Link Trainer. The early Link Trainers were pneumatically (air) operated in contrast to the later electronic models.

Wurlitzer Merry-Go-Round

The Wurlitzer has about 75 organ pipes, 16 chimes, a bass drum, cymbal, and a snare drum . . . all controlled automatically from a paper roll inside the machine. This machine, built around 1912, also had the extra feature of a double roll . . . while one played, the other rewound. The idea was simple . . . it saved the operator's time and money. This allowed him to devote more attention to watching children on the merry-go-round. The Moses acquired this machine from an amusement park owner in Detroit, Michigan.

Baldwin Player Piano

Typical of most foot-pedaled player pianos, this instrument was built in the 1920's. Made by the Baldwin Piano Company, it has what is termed a ukelele attachment . . . a "gimmick" to give it a "rinky-tink tinny"

the Cremona "Orchestra" Piano, Baby Grand Piano, the Mills Violano-Virtuoso, and the Tangley Air Calliope. Most of these instruments were in very poor condition when the Moses acquired them. After many hours of tedious labor the instruments are restored to as near original condition as possible. If it's the music of the early twenties you want they have it.

sound. Moses has converted it from a foot-pedaling machine to an electric playing one.

Marshall-Wendell Baby Grand Expression Reproducing Piano

This machine was found among an array of peanut, cigar, and gum-ball machines in a vending supply establishment in Philadelphia, Pa. The Baby Grand (about 1930) plays the music as the music artist originally played it . . . with all the crescendos, pianissimos, and fortissimos, bringing about the term "expression reproducing piano". The expression effect was accomplished by cutting extra holes in the margins of the roll. With this type of piano, one can actually re-create the presence of Rachmaninoff playing his "Prelude in C-Sharp Minor," or Gershwin playing his "Rhapsody in Blue."

Cremona "Orchestra" Piano

The Cremona dates to 1919. It is currently in the process of restoration. It contains 79 organ pipes, a tambourine, castanets, and a triangle.

When the Moses first acquired the machine, it did not play a note. It has required about a year's work getting it to the place of just playing.

Mr. and Mrs. Moses consider the piano-violin combination the most ingenious unit in their collection.

It not only fingers the violin strings, but by alternating the speed of the bow device can create the loud and soft variations that a violinist would

produce.

At times the search for the pieces has required more patience than the actual rebuilding processes. Locating the various machines has taken Mr. and Mrs. Moses through many states and often the cost of shipment is greater than the price paid for the machines.

Mr. Moses has been with Good-year Atomic Corporation since April, 1954. His wife, Lucille, a graduate of Bellevue (New York) School of Nursing is an active Red Cross volunteer. She has accompanied the Huntington Regional Bloodmobile to plantsite on several occasions. "Little did I know," she said, "when I gave Morris that record for his birthday seven years ago that it would develop into the exciting hobby it has for both of us." (The record is entitled "Ragtime Piano Roll.")

Her biggest worry now is . . . where will she put the next nickelodeon her husband locates.

We are all granted time for the things we really ought to do; we leave them undone because we waste our time or spend it on unnecessary and trivial things.

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Waverly 5-100
Ext. 2165 or 2514



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U. S. Savings Bonds Available Through Company Payroll Deductions

This year America marks the twentieth anniversary of the Savings Bond program. Goodyear joins many industries and government agencies in the observance by reminding every employee of the opportunity to purchase U. S. Savings Bonds through payroll deductions.

The payroll deduction method of purchasing savings bonds has proved an efficient way of saving for 292 GAT employees, who purchased \$12,186.38 in bonds each month; an annual total of \$146,236.56. (As of June 20, 1961.)

This month a "reminder program" is being conducted throughout Goodyear's domestic plants. Employees who are not signed up for the program are reminded of the opportunity to sign up through the company's payroll deduction plan.

"The annual project is not a fund-raising drive as such," said G. H. Reynolds, general manager. "We only wish to inform the employees of the plan and how they can sign up for it."

"Regular saving is a demonstration of personal responsibility and a reflection of continued faith in the future of our country."

"In this, the 20th anniversary, the Company reaffirms its support of the Savings Bond program by continuing to make the payroll deduction plan available."

GAT employees should make application for payroll deduction in the

timekeeping and payroll department, 1st floor, X-100 building.

In the twenty years that Americans have been buying bonds, features of the program have kept pace with America's progress. To name but a few of the reasons for buying bonds, current Series E bonds have the following features:

Guaranteed 3¾ percent interest for 7 years and 9 months.

Guaranteed 10-year extension at your option.

No income tax until bond is cashed.

Loss-proof—if stolen, lost or destroyed, the bond is replaced without charge.

Just like cash . . . can be redeemed at nearest bank.

Exempt from state or local income taxes.

Safe as the United States of America.

An investment in national security . . . a share in America.

The regular deduction of bonds from wages can mushroom into a surprising amount in a relatively short time.

For example, by having \$2.50 taken out each week, a bondholder can accumulate bonds worth \$405 in three years, \$703 in five years and \$1,150 in seven years.

Other amounts can be deducted weekly and will be explained, upon inquiry, by the timekeeping and payroll department.

SAFETY SLOGAN CONTEST

Employee response to the revised Safety Slogan Contest is excellent.

The revised Contest, which now includes a telephone message for 2222, was designed to stimulate a greater interest in safety and to promote increased employee participation in the safety program.

A check in the safety department last week revealed that a greater interest has developed, especially from members of employee's family, as evidenced by a greater number of entries.

However, some employees do not understand the basic ground rules for submission of a safety slogan or telephone message. Too many of the en-

try blanks are being turned in with insufficient wording in the telephone messages; slogans and messages submitted on the same entry blank; the wrong portion of the blank submitted, etc.

An individual may submit as many entries as desired. Safety slogans must NOT CONTAIN MORE THAN A COMBINATION OF 80 LETTERS, NUMERALS, AND PUNCTUATION MARKS. Telephone messages MUST CONTAIN NOT LESS THAN 50 NOR MORE THAN 150 WORDS. Employees will sponsor slogans or messages submitted by members of his family.

All entries must be mailed to the Safety Department, X-100 Building.

Holthaus Celebrates Fifteenth Anniversary

R. A. Holthaus, chemical operations subdivision, completed fifteen years continuous service with Goodyear July 15, 1961. In honor of his anniversary R. M. Rutherford, manager, production division, presented Mr. Holthaus with a fifteen year pin Friday, July 14.

Mr. Holthaus began his Goodyear career as a member of GT&R's factory office squadron in 1946. Later he was assigned to the Pilot Plant Group engaged in experimental work on latex polymerization. He operated various equipment associated with the Pilot Plant.

In 1953, he transferred to Goodyear Atomic Corporation as a general foreman, process area. He was promoted to supervisor in the chemical operations subdivision in 1954.

Mr. Holthaus was among the original groups who trained at Oak Ridge and Paducah as supervisory start-up teams for GAT. He aided in the instruction of other GAT supervision prior to start-up. He assisted in writing the section of training manuals which pertained to chemical operations. This section included operating procedures and safety regulations.

Mr. and Mrs. (Eleanor) Holthaus live at Lake White. They have two sons, Richard, 14, and John, 10.

Rodecap Completes Ten Years Service

July 16, 1961 marked the completion of ten-years continuous service with Goodyear for Paul E. Rodecap, timekeeping and payroll department.

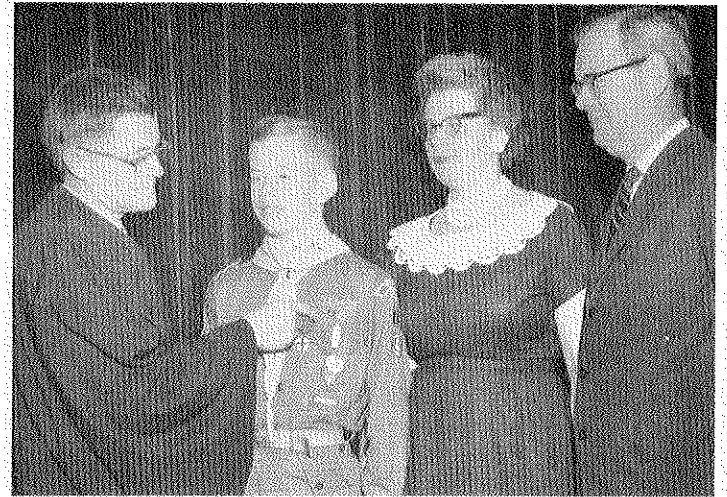
He joined the Goodyear Tire & Rubber Company in Akron July 16, 1951 as a cost clerk. On January 21, 1952 he transferred to Goodyear Aircraft as an accountant. He was promoted to section head in GAC's timekeeping and payroll department September 16, 1952.

He was selected supervisor of Goodyear Atomic's timekeeping and payroll department in February, 1953 and assumed his new duties March 16, 1953. Last October he became supervisor of the accounts payable and cashier department.

W. L. Sams, manager, finance division, presented Mr. Rodecap with an anniversary tie-clasp July 17, in recognition of his continuous service with the Company.

Rodecap is a graduate of Bowling Green (Kentucky) College of Commerce with a Bachelor's Degree in Accounting.

He and his wife, and two children live in Waverly.



FOR GOD & COUNTRY. Earl Woltz (second from left) is presented Scouting's God and Country Award by The Reverend Ralph Lewis, Pastor of the First Presbyterian Church in Waverly. At right is Earl's parents Dr. and Mrs. F. E. Woltz. Dr. Woltz is in the Operations Analysis Department. — Photo courtesy Waverly News Watchman

Receives Scouting Awards

"The Boy Scouts of America maintains that no boy can grow into the best kind of citizenship without recognizing his obligations to God."

Earl Woltz, a member of Troop 76 in Waverly, fulfilled his obligation as set forth in the Constitution of the Boy Scouts of America when he received the God and Country Award. Scout Woltz is the son of Dr. F. E. Woltz, operations analysis department.

The God and Country Award is a Religious Award not a Scouting Award. It is conferred on the Scout by his own Church or Synagogue. He learns his specific duties from his Minister, Priest, Rabbi, Ward Bishop, or Religious Counselor.

The Reverend Ralph Lewis presented the God and Country Award to Scout Woltz during special services in the First Presbyterian Church,

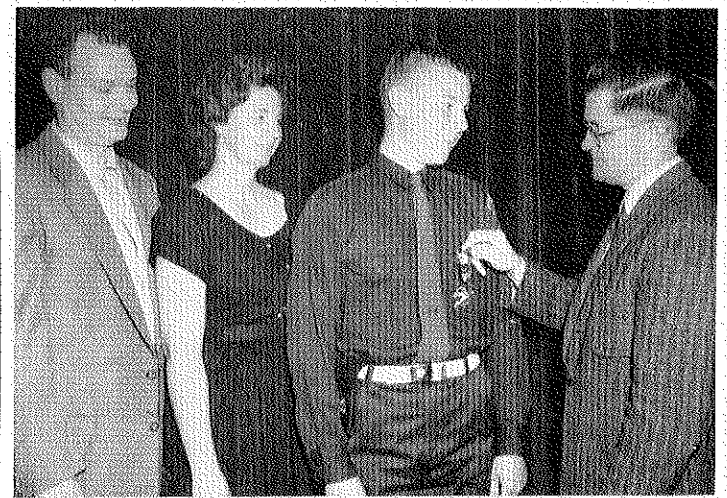
Waverly, sponsor of Troop 76.

Richard Johnson, son of G. L. Johnson, electrical maintenance department, recently won his Eagle Scout Badge as a member of Troop 76 in Waverly.

The Reverend Ralph Lewis, pastor of the Waverly First Presbyterian Church, presented the Eagle Scout Badge at a Court of Honor last month.

Troop 76 is sponsored by the First Presbyterian Church. C. C. Hobbs, electrical maintenance department, is the Scoutmaster. Dr. F. E. Woltz, operations analysis department, is the Assistant. H. M. McInerney, industrial hygiene and health physics department, is Chairman of the Scout Committee.

Eagle Scout Johnson will begin his junior year at Waverly High School next September.



EARNES EAGLE SCOUT AWARD. Richard Johnson (second from right) receives the Eagle Scout Badge from The Reverend Ralph Lewis, Pastor of the First Presbyterian Church in Waverly. At left are Richard's parents Mr. and Mrs. G. L. Johnson. Mr. Johnson is in the Electrical Maintenance Department. — Photo courtesy Waverly News Watchman

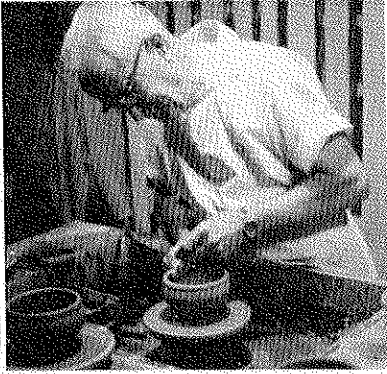
New Arrivals

Mr. and Mrs. G. W. Coffindaffer, (cascade maintenance department), son, Brian David.

Mr. and Mrs. Franklin D. Ryan, son, Christopher Franklin. The mother, Diana, is a former member

Mr. and Mrs. C. L. Hill, (process area 1), daughter, Linda.

Mr. and Mrs. J. C. Hickey, (spe- of process engineering.



THE SIX-MONTHS' SAFETY SLOGAN AWARD won by Smokey Mountains. Mr. Ewing was the 1961 first-half J. G. Ewing, water treating department, produced these photographs of his recent vacation trip to the Polaroid Land Camera.

"Your Best Safety Award Is Your Own Safety"

True to his word, J. G. Ewing, water treating department, brought back proof that he used his Polaroid Land Camera while on vacation in the Smokey Mountains. The Camera was awarded him as winner of the Six-Months' Safety Slogan Contest "Your Best Safety Award Is Your Own Safety."

Mrs. Ewing is one of the July slogan winners. Her slogan is now being displayed on the Plant Safety Bulletin Board "You Hold The

Key To The Lock Of Safety."

Mr. Ewing provided the *Clan* with three pictures he had taken with his Polaroid. One was of a bear taken at Clingman's Dome at the top of the Smokies. The photo was taken at a distance of three feet. "I never expect to get that close to a bear again unless it is in a cage or dead," said Ewing. Another picture was of a man turning out hand-made pottery at Pigeon Forge. The third photo was of his wife relaxing on a rock in the Pigeon River in the Smokies.

"I am very happy with my Polaroid," said Ewing. "All our friends seem to express a great interest in the photographs I take with it. I didn't realize how lucky I was to win such a nice award until I used it on our recent trip to the mountains. Many thanks to the Goodyear Atomic Corporation and the Safety Department for sponsoring the Safety Slogan Contest."

Mr. and Mrs. Ewing spent their week-end vacation in the Smokies July 7, 8, 9, and 10.

Jackson Bowlers Set Business Meeting

The GAT Men's Bowling League of Jackson will have an organizational meeting next Monday, July 24. The meeting will be held upstairs in the Elk's Lodge.

Last bowling season this league was composed of eight teams. The purpose of this meeting is to form teams for the coming season and to consider revisions to the present constitution and by-laws.

Any employee interested in bowling in the Jackson League should attend the meeting.

Morgan Surrett, electrical mainte-

nance department, is League President. Bob Reed, timekeeping & payroll department, is Secretary.

GAT Employees

As of July 14, 1961

Have Worked 4,432,000 Manhours Without a Disabling Injury

"B" Shift Leads Softball League

"B" Shift is the leader in the GAT Softball League. John Boggs, fluorine generation department, is the team's manager. They reached the number one spot by defeating the GAT Cats 6-5 last week.

Jim Van Dyke (600), Don Scott (478), and Bill Pearson (400) are the leading sluggers on the "B"

Shift team.

Other leading hitters in the league are: Bill Hewitt (600), Bill Harbert (444), and Carl Walker (384), of the Misfits; Larry Curtis (666), Hony Armstrong (600), Gene Edens (461), and Howard Cutright (352), members of the GAT Cats; Rich Leeth (500), Jim Oates (500), and Norb Vulgamore (470), leading the "A" Shift team.

Goodyear Gives A Boost To Saturn

America's most powerful rocket, the Saturn, will get a boost into space from a new, precision-built hose that permits aerospace engineers to gauge within one-tenth of a gallon the amount of fuel dispensed.

To reach fuel tanks in the rocket, the hose had to bend around a 24-inch radius without kinking, a practical impossibility with previous six-inch hose. But the specifications were met with methods applied to a similar hose used in the Jupiter series that carried monkeys Able and Baker into space.

Use of a specially designed inner wire helix permits extreme flexibility and also protects against collapse of the hose under vacuum. A rubber inner tube that offers extreme resistance to the powerful fuels and an outer cover of oil and weather-resistant stock complete the special hose.

THE ATOM IN THE SPACE AGE

Recently, considerable discussion has been given to the need for big boosters in the space efforts of the United States.

Dr. Glenn Seaborg, Chairman of the Atomic Energy Commission, states that the use of nuclear energy for rocket propulsion will be the big breakthrough enabling man to travel freely wherever he pleases in space.

There are technical problems to be overcome in harnessing the atom for use in the cosmos, but for long-range missions, it is essential that the specific impulses of the propul-

sion system be increased well beyond the values now deemed feasible for chemical combustion.

Only atomic energy, among present power sources, has the staying power to cross the vast distances between our world and others in the solar system.

In addition to the main power source, nuclear energy is highly source, and radioisotope power units appear feasible in almost any situation where there is need for unattended units in space.

Radioisotopes need not go into space to be valuable to Earthmen.

For example, they might be used as navigational aids in remote areas; as communications relay stations; as forest fire warning equipment; as ocean cable boosters and so forth.

Naturally, the use of nuclear energy to meet the space challenge is the most dramatic.

"Mankind," said Dr. Seaborg, "is only on the verge of the Space Age. Nuclear rocket propulsion, aided by nuclear powered instrumentation, will carry us a long stride forward into the vast universe that surrounds this earth.

"Success in our space effort is within our reach."

Interleague Golf Match August 19

The Second Annual GAT Interleague Golf Match for men has been scheduled for Saturday, August 19, at the Skyline Course in Waverly.

Four teams will be entered, one each from Waverly, Portsmouth, Chillicothe, and the Independents. Team Captains include Bob Owens, Waverly; Glenn Russell, Portsmouth; Fred Pickens, Chillicothe; and Dick Jones, Independents.

Teams will consist of the top 12 players in each area. The Team Captain will contact the top golfers in his area to invite their participation in the match.

The lowest total team score will determine the winner. The winning team will be invited to GAT's Annual Banquet of Champions.

Coming Golf Events

GAT male golfers are reminded of several golf events coming up in the near future.

Golf events for August include the outing scheduled for the Championship Course at Granville, Ohio. The date is Saturday, August 12 and the total cost is \$7 per person. This fee includes the green fees and dinner at the famous Granville Inn.

It is necessary that reservations for this outing be made with the recreation department by Friday, August 4.

Flight Championship Coming Up

The Annual Flight Championship Tournament will be held at the Portsmouth Elks Country Club September 9.

Return Postage Guaranteed

Goodyear Atomic Corporation
P. O. Box 628
Portsmouth, Ohio

Classifieds

FOR SALE

16' "Runabout" Boat. Fiberglass hull. 30 HP Scott Motor. Electric starter. Landskipper trailer. Boat has boat controls, windshield, steering wheel, front and rear running lights. Upholstered seats. 233 Raymond Ave., West Portsmouth, Ohio.

Motorcycle. 1958 BSA Super Rocket, 7800 miles. Like new condition. Some extras. Perfect running condition. Telephone Portsmouth BLackburn 9-2952.

Two 8:00 x 14 Goodyear Suburbanite Tires mounted on wheels. \$20.00 each. Telephone Waverly 8133-R Saturday, July 22.

12' boat with 16 HP stock motor. Trailer. \$290. Telephone Waverly 83-L.

35' Hullohome House Trailer. Air conditioned. Telephone Beaver 4691.

WANTED

Two 75-80 gallon hot water tanks. Tanks do not have to be in operating condition. Telephone Waverly 8033-L.

Wanted to Buy. A good used boy's 24" bicycle. Telephone Beaver 4661.

Late Model Used Car. Prefer 1958 Chevrolet, Oldsmobile or Pontiac. Must be in excellent condition. 4-door, standard transmission. Telephone Jackson 833-M.



STEEL GIRDERs erected for a \$1.5 million addition to the research facilities of The Goodyear Tire & Rubber Company are protected against corrosion by a material developed by the Company for the paint industry. A primer coat of paint based on a synthetic rubber resin was applied to the girders at the steel fabricating plant. A finish coat of paint made from either the rubber resin or an acrylic type resin, also developed by Goodyear for paint formulations, will be used on both exterior and interior steel surfaces.

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