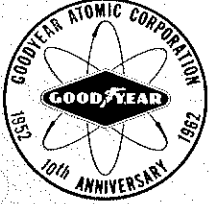


THE WINGFOOT CLAN



GOODYEAR ATOMIC CORPORATION



A Subsidiary of THE GOODYEAR TIRE & RUBBER COMPANY

ANNIVERSARY EDITION

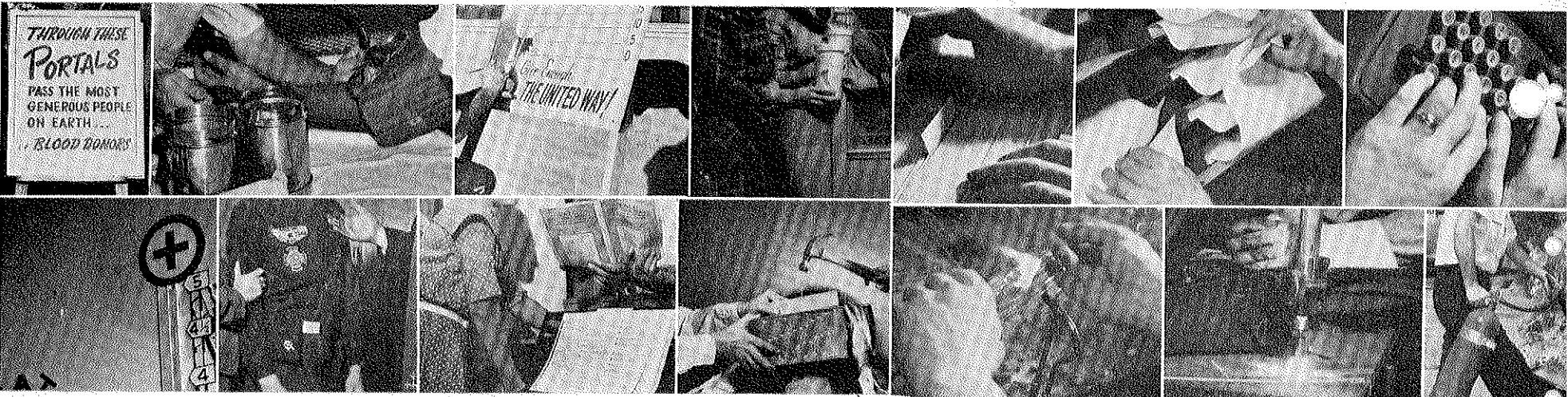
PORTSMOUTH AREA GASEOUS DIFFUSION PLANT

VOL. IX, NUMBER 22

AUGUST 22, 1962



Ten Years At Goodyear Atomic Corporation



Each Employee Deserves Credit

Many Hands Contribute To GAT's Successful Atomic Venture

Goodyear Atomic Corporation is one of three Atomic Energy Commission Gaseous Diffusion Plants separating uranium-235 from uranium-238. The end result is uranium enriched in the isotope of mass 235, generally referred to as U-235.

Since the announcement in September, 1952, that The Goodyear Tire & Rubber Company would be the operator, many hands have contributed to the outstanding success of Goodyear Atomic Corporation.

In the early stages of GAT, it was apparent that training was to be a major factor in preparing to put the plant in production. The Goodyear Tire & Rubber Company assigned 28 of its key personnel to develop the Goodyear Atomic organization.

It was immediately apparent to management that one of the major tasks was that of obtaining properly trained personnel to operate this tremendous facility. Direct hires in the field were nearly non-existent since most of the equipment was of special design and the process was unique. All trained personnel were already employed at the other two gaseous diffusion plants. Faced with these facts, the company decided that the only alternative was to obtain personnel who were recruited on the basis of individual potential and, workers with previous allied experience who would be given on-the-job training. One of the significant factors leading to GAT's success in the atomic energy field was the excellent job done by the transferees and the nucleus of employees first hired to conduct the training and recruitment programs.

In a period of less than a year a training program was planned and textbooks were written. Many of the required subjects were not in standard textbooks. Instructors were trained to teach subjects, portions of which were previously unknown to them.

The 4-county area surrounding plantsite — Pike, Scioto, Ross and Jackson counties — underwent a tremendous physical change during the building of the gaseous diffusion facility.

Service groups such as grocery stores, barber shops, churches, schools, and houses were all in-

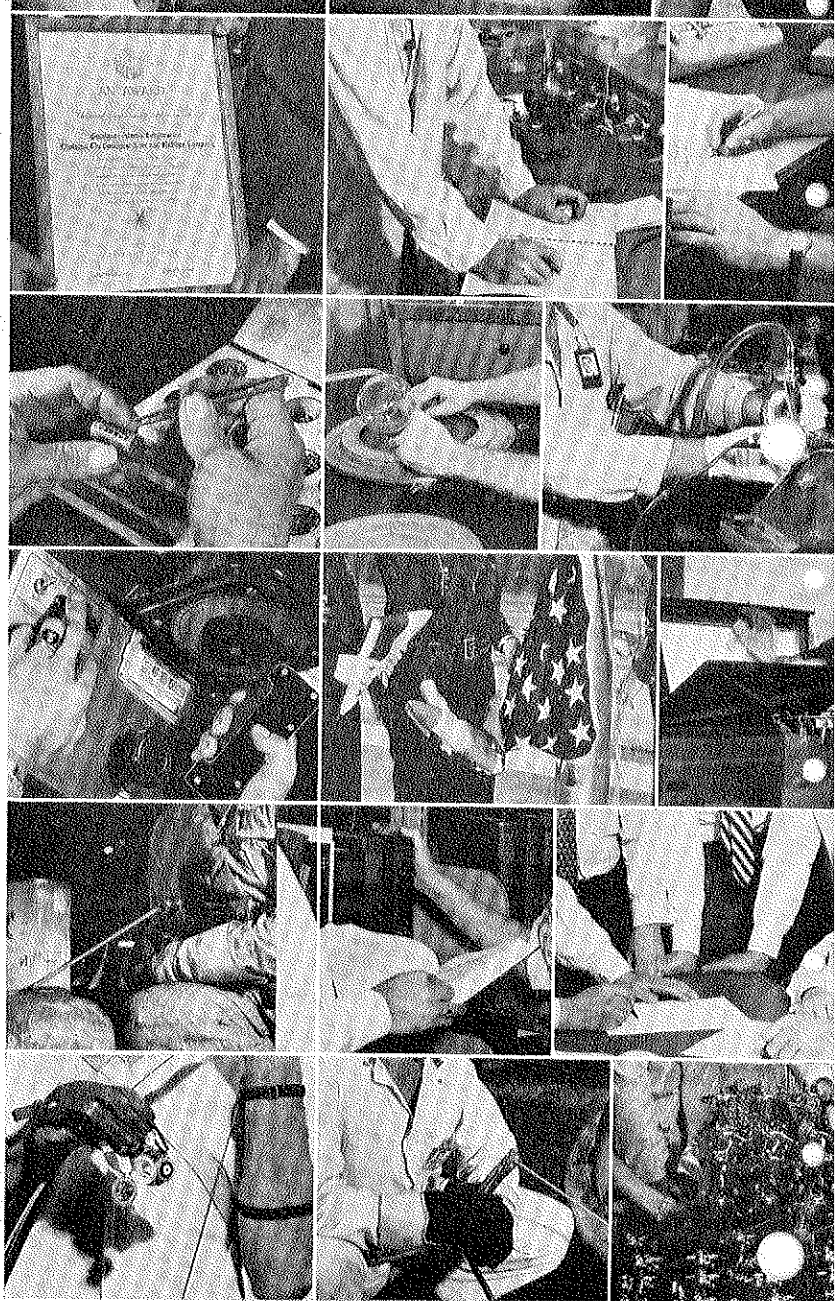
adequate to handle the large influx of people who came to build and to operate this plant.

To meet this problem, the company established a community relations department to aid employees to establish themselves in their respective communities. Employees were urged to become active in civic affairs and to join local clubs. A Speakers' Bureau was set up to tell the "atomic story" to the local residents. A Blood Bank was established. An All-In-One Community Fund Drive was started along with many other activities which would have an effect on the community. To relieve the burden of over-taxed recreational facilities, the company began to sponsor many employee activities such as basketball, softball, golf, bowling leagues and other recreational events. Gradually, Goodyear Atomic Corporation began taking its place in the community. Slowly, the words atom, radiation, alpha, beta, gamma, curie, fission, and other similar atomic energy terms began to be as commonplace as the words airplane and automobile.

The cost of Goodyear Atomic Corporation was estimated at \$1,219,000,000. The final cost was approximately \$750,000,000. Improved construction methods, good management, cooperation among all contractors, good labor relations, and excellent weather conditions made possible savings in excess of \$460,000,000.

(Continued on Page 10)

COVER PHOTOGRAPH by J. E. Westcott, Chief, Photographic Services, USAEC, Oak Ridge, Tennessee.



Ten Years In Retrospect

Goodyear Eagerly Accepted And Met Challenge To Operate Plant

"The job Goodyear will take on is an opportunity and a challenge which the company eagerly accepts."

This statement was made September 18, 1952, by E. J. Thomas, then president of The Goodyear Tire & Rubber Company, following announcement that Goodyear had been selected to operate the Atomic Energy Commission's new gaseous diffusion plant in Pike County.

At the same time the then Goodyear President announced the staff of key men who would head up Goodyear Atomic.

"The manager of Goodyear Atomic Corporation will be Mr. A. J. Gracia, able scientist and manager of the development and research departments with almost twenty-five years Goodyear experience.

"The key organization selected to date includes:

"Mr. J. A. Merrill, who will head up the laboratory division. Mr. Merrill has a background of chemical engineering; has twenty-two years of Goodyear experience; and comes from our research division.

"Mr. D. H. Francis will be in charge of the development engineering division. Mr. Francis has thirteen years of Goodyear service, a chemical engineering background, and is currently in charge of the Houston synthetic plant.

"Mr. G. H. Reynolds will be in charge of the production division. Mr. Reynolds has twenty-four years of Goodyear service, a chemical engineering background, and currently in charge of Goodyear's vinyl resin manufacturing and processing opera-

tions at Niagara Falls and Akron.

"Mr. W. A. Brown will be in charge of staff engineering and the maintenance division. Mr. Brown has twenty-four years of Goodyear service and is an electrical engineer with wide experience in our engineering department.

"Mr. H. C. Hilliard will be in charge of the industrial relations division. Mr. Hilliard has twenty-five years of Goodyear service, all in the company's personnel work in our plants here and abroad.

"Mr. H. H. Kenny will be in charge of the finance division. Mr. Kenny has thirty-nine years of Goodyear experience in most every phase of our operating department, and for some time has been works auditor of the synthetic operations.

"Mr. I. S. Gharky will be in charge of purchasing and materials division. Mr. Gharky has nineteen years of Goodyear experience with a wide experience in all phases of purchasing and is presently in this work at the Goodyear Aircraft Corporation."

Losing the services of such key men, as well as many others, was one big price The Goodyear Tire & Rubber Company had to pay to run the government's billion dollar atomic energy installation.

This is only one of many factors Goodyear had to weigh carefully before deciding whether the effort would be worth it.

For one thing, to organize any plant from scratch — even a small one in your own line — usually creates a nest of management bugs. Added to that is the extra time and

effort which top management must heap on an already heavy executive load. Most knotty of all, however, was the personnel problem. Who will be the top administrators? First of all, if any such operation is to be successful first-rate men must be chosen. So, consideration must be given the cost of robbing other parts of the organization of some of its best managers.

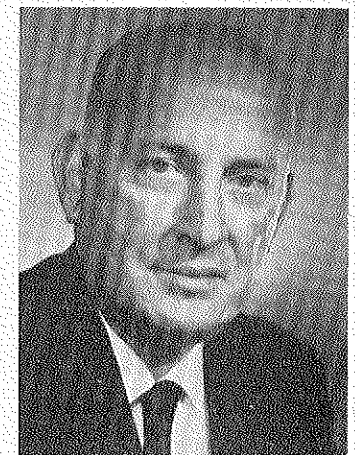
Goodyear added up all these disadvantages. It still found itself eager



A. J. GRACIA
General Manager
1952-1956



D. H. FRANCIS
General Manager
1956-1960



G. H. REYNOLDS
General Manager
1960-Present

to take on what top management thought was the biggest challenge in the company's history.

Here are some of the advantages pointed out by Mr. Thomas:

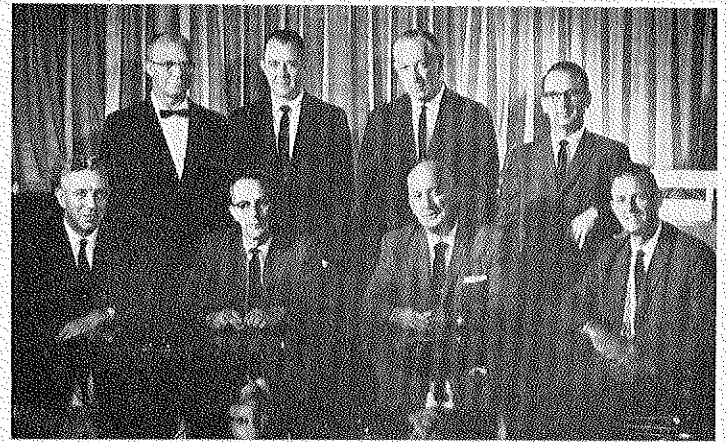
The prestige can't help but be worth dollars and cents in industrial and commercial relations.

Atomic energy was the most significant development in our lifetime to date, so any aggressive company ought to jump at the chance to get in on the ground floor.

Such an undertaking was a quick way to upgrade men who had been tapped for bigger things as soon as the opportunity presented itself.

Looked at that way, it was easy to see why Goodyear was willing to uproot part of its management organization to try its hand at a brand new field, even though the dollar return didn't approach what industry expects from normal private operations.

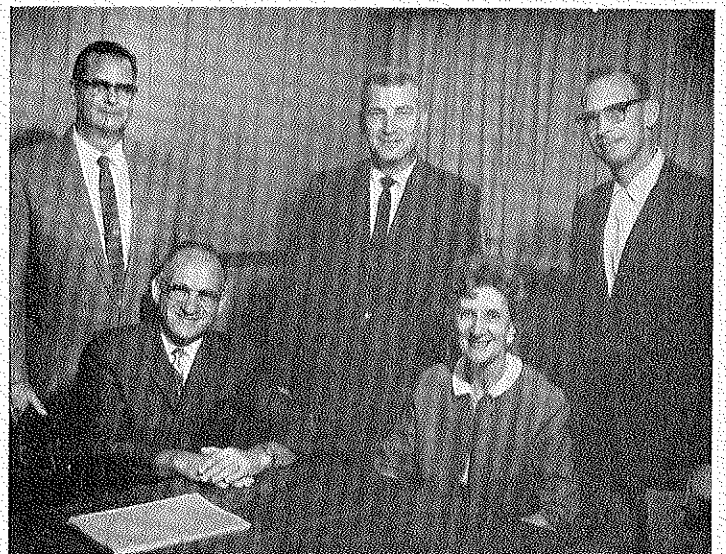
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PRESENT OPERATING COMMITTEE: Seated from left: W. A. Brown, Manager, Plant Engineering & Maintenance; Dr. C. R. Milone, Manager, Technical Division and Deputy General Manager; G. H. Reynolds, General Manager; and D. W. Doner, Manager Industrial Relations. Standing from left: J. S. Dysart, Administrative Assistant; R. M. Rutherford, Manager, Production; C. L. Jenkins, Manager, Purchasing & Materials; and W. L. Sams, Manager, Finance.



FIRST OPERATING COMMITTEE: From left: J. A. Merrill, Manager, Laboratory; W. A. Brown, Manager, Plant Engineering & Maintenance; G. H. Reynolds, Manager, Production; J. S. Dysart, Administrative Assistant; I. S. Gharky, Manager, Purchasing & Materials; A. J. Gracia, General Manager; H. C. Hilliard, Manager, Industrial Relations; D. H. Francis, Manager, Development Engineering; and H. H. Kenny, Manager, Finance.



FIRST EMPLOYEES hired by Goodyear Atomic Corporation. Seated: B. Kalmon (left), Supervisor, Industrial Hygiene and Health Physics, and Virginia McDonald, General Manager's Secretary. Standing from left: E. R. Newman, General Foreman, Utilities Operations; D. B. Jones, Supervisor, Utilities Operations; and M. D. Lowman, Plant Engineering.

"Atoms For Peace"

GAT Plays Important Role In Peacetime Uses Of The Atom

(Editor's Note: The following article was prepared by V. J. DeVito, Uranium Control Subdivision.)

Goodyear Atomic Corporation was built primarily to produce material necessary for the defense of our nation. Today, the company is making an important contribution in the application of nuclear materials for peaceful purposes.

By provisions of the amended Atomic Energy Act of 1954, and subsequent presidential authorizations, a substantial amount of uranium-235 was made available for atomic energy projects other than those directly related to defense. As a result, GAT has been supplying UF₆ for peaceful uses since August 1957.

Through June 30, 1962, approximately 315,000 pounds of uranium has been shipped to commercial processors. This material has an accumulated monetary value of over \$6.4 million dollars. The material was contained in 1,621 cylinders representing over 100 requests for special work authorized by the AEC. Forty-six requests provided material under license arrangements, and fifty-seven requests represented material or service requirements applicable to government projects, but not associated with national defense.

The assay (U-235 concentration) of the material shipped has ranged from normal assay (0.7% weight U-235), valued at \$10.66 per pound of uranium to 93% which is presently valued at \$5,075 per pound of uranium. The majority of GAT shipments have been made to the Nuclear Materials and Equipment Corporation (NUMEC) of Apollo, Pennsylvania, and Spencer Chemical Company, Pittsburg, Kansas. These organizations are licensed industrial material processors who convert the material into either metal, oxides or other compounds for ultimate usage in nuclear energy projects. In some instances they perform work for the government similar to the relationship between Goodyear and the Atomic Energy Commission.



DeVito

The almost steady flow of special request material has been due also to the continued expansion of commercial nuclear enterprise.

For example, at the end of June 1962, 168 civilian reactors were operable, being built, or planned in the United States alone. Of this total, three large power reactors were commercially producing a combined total of 400,000 kilowatts. By the end of 1962, an additional ten, large and small power, reactors will be in operation, increasing the total power output beyond one million kilowatts. This would provide enough power for twelve areas approximately the size of metropolitan Portsmouth.

Fifty-seven reactors have been built or are in the process of being built, for which the fuel requirements will be supplied by the U. S. gaseous diffusion plants.

To date material produced by GAT has been converted into fuel for the following reactors:

Dresden (Commonwealth Edison Co.), Morris, Illinois.

Yankee (Yankee Atomic Electric Co.), Rowe, Massachusetts.

Pathfinder (Northern States Power Co.), Sioux Falls, South Dakota.

Humboldt Bay (Pacific Gas & Electric Co.), Humboldt Bay, California.

Elk River (AEC and Rural Cooperative Power Assoc.), Elk River, Minnesota.

Bonus (AEC and Puerto Rico Water Resources Authority), Punta Higuera, Puerto Rico.

Sodium Reactor Experiment (AEC and Southern California Edison Co.), Santa Susana, California.

Spectral Shift Control Reactor (AEC), Lynchburg, Virginia.

Various Reactors (AEC), National Reactor Testing Station, Idaho Falls, Idaho.

Saxton (Saxton Nuclear Experiment Corp.), Saxton, Pennsylvania.

Goodyear Atomic Corporation has also provided material for ultimate use in reactors and research programs in Belgium, Canada, France, Japan, Italy, and the Netherlands.

In 1960, GAT supplied one-half of the fuel requirements for the merchant ship, N. S. Savannah, which is scheduled to make its maiden voyage this year. The ship's power will be steam generated by the heat of a

single pressurized water reactor, which will not need refueling for 3½ years. The cruising speed of the ship will be 21 knots developed with a normal output of 22,000 shaft horsepower. The 22,000-ton, 595-foot Savannah will carry a total cargo load of 10,000 tons plus 60 passengers and 124 crew members. Over the 3½-year period of operation, the Savannah will consume 110 pounds of Uranium-235. Over the same period an oil-fired ship of the same size and speed would burn approximately 100,000 tons of fuel.

In addition, GAT has provided material for research, tests, and development programs conducted by the following organizations:

Aerojet-General, San Ramon, California.

Argonne National Laboratory, Lemont, Illinois.

Atomics International, Santa Susana, California.

Combustion Engineering, Windsor, Connecticut.

Davison Chemical Co., Erwin, Tennessee.

General Electric, San Jose, California.

Knolls Atomic Power Lab. (G.E.), Schenectady, New York.



GOODYEAR ATOMIC CORPORATION RECEIVES ORDER for third core Yankee Atomic Reactor from the U. S. Atomic Energy Commission. W. Koester, Jr. (right), Chief, Operations Branch, Portsmouth Area AEC, is presenting the order to A. H. Wernecke, Superintendent, Uranium Control Subdivision. GAT supplied one-half of the fuel requirements for the first core loading and all of the fuel for the second and third core loadings.

Mallinckrodt Nuclear Corp., Hematite, Missouri (now United Nuclear Corp.)

Martin Co., Middle River, Maryland.

Lawrence Radiation Laboratory, Livermore, Calif.

National Bureau of Standards, Washington, D. C.

National Lead Co. of Ohio, Fernald, Ohio.

Nuclear Materials and Equipment Corp. (NUMEC), Apollo, Pa.

Spencer Chemical Co., Military, Kansas.

Westinghouse Electric Co., Pittsburgh, Pa.

Goodyear is proud to be associated with the highly successful Yankee Atomic Reactor which went on stream in 1961. GAT has provided the material for the 1st, 2nd and 3rd core loading of this reactor. The material for the 3rd core was recently shipped and is scheduled to be placed into the reactor during the latter half of 1963.

Material for the 3rd core loading is valued at \$8,168,500 based on

(Continued on Page 10)



THE NUCLEAR SHIP SAVANNAH makes a trial run down the Delaware River. Goodyear Atomic supplied one-half of the material for its reactor. The NS Savannah is a nuclear powered project sponsored by the U. S.

GOODYEAR SUPPLIES URANIUM FOR PEACE

LEFT: O. G. Emshwiller, SS Materials Handling, selects the cylinder for the Yankee Atomic withdrawal.

CENTER: B. W. Shugert, Process Engineering, prepares the operating instructions for delivery to Cascade Operations.

RIGHT: C. D. Mullins, Process Area 4, removes the full cylinder after the special product withdrawal.

LEFT: R. G. Wynn, Chemical Analysis Department, prepares the uranium sample for analysis to determine uranium content.

CENTER: I. G. Smith, "C" Shift Cascade Coordinator, coordinates special product withdrawal from the Plant Control Facility.

RIGHT: O. G. Emshwiller (seated) and J. B. Chandler, SS Materials Handling Department, withdraws a product sample for delivery to the GAT Laboratory.

LEFT: W. E. Glover, Mass Spectrometry Department, analyzes the product for U-235 concentration.

CENTER TOP: O. W. Lozier, Materials Sampling & Testing Department, sub-samples the product sample from the SS Materials Handling Department.

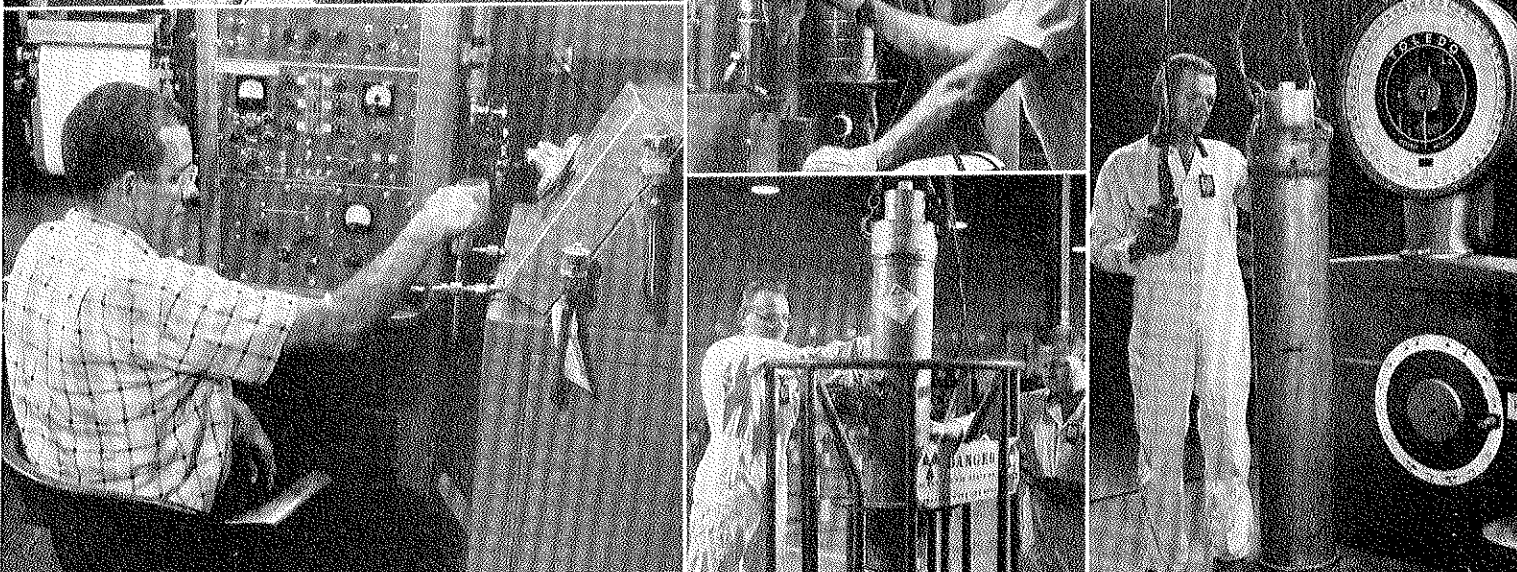
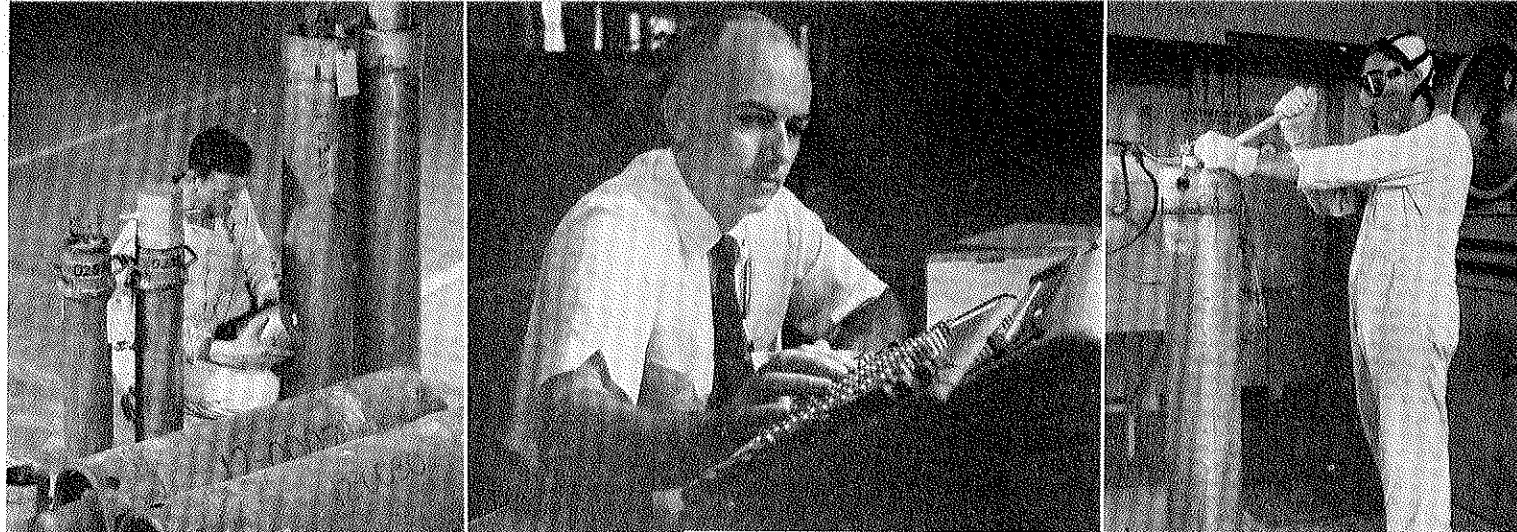
CENTER BOTTOM: D. P. Waldron (left) and J. G. Bailey, SS Materials Handling Department, packages the product cylinder for shipment.

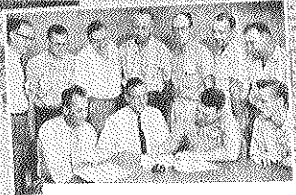
RIGHT: A. W. Lucas, SS Materials Handling Department, weighs the cylinder preparatory to shipment.

LEFT: R. L. Settle (seated), and J. E. Harshman, Accounting Department, review the cost of the special product withdrawal.

CENTER: The product on its way to the Nuclear Materials and Equipment Corporation, Apollo, Pennsylvania.

RIGHT: Yankee Atomic Reactor Facility, a privately-owned nuclear power plant, Rowe, Massachusetts.





The Goodyear Atomic Corporation's operating contract with the Atomic Energy Commission has been extended for a period of five years, according to a statement released by the company. The contract, which was originally set to expire in 1957, covers the production and distribution of atomic energy materials for the nation's defense and civilian needs.

Thalgott Appointed Manager Portsmouth Area AEC Office



Thalgott, Appointed Manager Portsmouth Area AEC Office

GAT Makes Initial Withdrawal Of Material For Yankee Atomic

CONGRATULATIONS 6,500,000

The Goodyear Atomic Corporation has announced that it has made its initial withdrawal of material for the Yankee Atomic Power Plant. The withdrawal, valued at \$6,500,000, marks a significant milestone in the plant's construction and operation.

Anderson Replaces Thalgott As Portsmouth Area AEC Manager

Anderson, who has been with the company for several years, will be responsible for overseeing the day-to-day operations of the Portsmouth Area Atomic Energy Commission office. He will be working closely with the local government and the community to ensure the safe and efficient operation of the plant.

K. H. Kenny Retires

Kenny, who has been with the company since 1945, is retiring after a long and distinguished career. He will be missed by his colleagues and the community.



K. H. Kenny Retires

McCutcheon New Manager Of AEC Portsmouth Area; K. A. Dunbar To Chicago

McCutcheon, who has been with the company for several years, will be taking over the day-to-day operations of the Portsmouth Area Atomic Energy Commission office. Dunbar, who has been with the company for several years, is being transferred to Chicago to take on a new role.



McCutcheon New Manager Of AEC Portsmouth Area; K. A. Dunbar To Chicago

Goodyear Atomic Corporation Participates In President's Atoms For Peace Program

The Goodyear Atomic Corporation has announced that it is participating in the President's Atoms for Peace Program. This program is designed to promote the peaceful use of atomic energy and to foster international cooperation in the field of nuclear science.



Goodyear Atomic Corporation Participates In President's Atoms For Peace Program

I. S. Charky Promoted To Akron Position; C. L. Jenkins, M. R. Zigler Get GAT Promotions

Charky, who has been with the company for several years, is being promoted to a new position in Akron. Jenkins and Zigler are also receiving promotions to new positions within the company.



I. S. Charky Promoted To Akron Position; C. L. Jenkins, M. R. Zigler Get GAT Promotions

Porter Moves To Topeka; Boughton, Pate Are Promoted

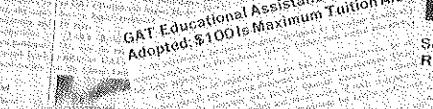
Porter, who has been with the company for several years, is moving to Topeka to take on a new role. Boughton and Pate are also receiving promotions to new positions within the company.



Porter Moves To Topeka; Boughton, Pate Are Promoted

Ruels Is Company Bowling Champion; Kaul Wins Portsmouth Bowling Crown

Ruels, who has been with the company for several years, has won the company bowling championship. Kaul, who has been with the company for several years, has won the Portsmouth bowling crown.



Ruels Is Company Bowling Champion; Kaul Wins Portsmouth Bowling Crown

GAT Educational Assistance Program Adopted; \$100 In Maximum Tuition Aid

The Goodyear Atomic Corporation has announced that it has adopted an educational assistance program. This program will provide employees with up to \$100 in maximum tuition aid for their education.



GAT Educational Assistance Program Adopted; \$100 In Maximum Tuition Aid

The skill of engineers, labor, and management is essential for the success of any industrial enterprise. It is the responsibility of these professionals to ensure that the company operates efficiently and effectively.

Carlson Named Manager Of New Chemical Plant In W. Va.; Meniges To Succeed Him

Carlson, who has been with the company for several years, is being named as the manager of the new chemical plant in West Virginia. Meniges, who has been with the company for several years, will be succeeding him in his current position.



Carlson Named Manager Of New Chemical Plant In W. Va.; Meniges To Succeed Him

NOT ENOUGH HOURS



NOT ENOUGH HOURS

The job of a manager is to ensure that his employees are working enough hours to be productive. It is the responsibility of the manager to create a work environment that encourages efficiency and productivity.

Goodyear's Elder Staff Busy Doing What They Can

The elder staff of Goodyear Atomic Corporation is busy doing what they can to contribute to the success of the company. They are working hard to ensure that the company operates efficiently and effectively.



Goodyear's Elder Staff Busy Doing What They Can

GOODYEAR ATOMIC FOREMAN'S CLUB EST

The Goodyear Atomic Foreman's Club has been established. This club is designed to provide foremen with a place to share their experiences and to discuss the challenges of their job.



GOODYEAR ATOMIC FOREMAN'S CLUB EST

GOODYEAR SELECTS A-PLANT

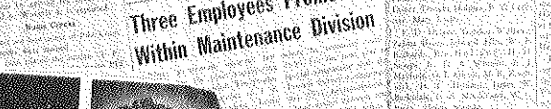
Goodyear Atomic Corporation has selected the A-Plant as the best plant in the industry. This selection is based on the plant's efficiency, productivity, and safety record.



GOODYEAR SELECTS A-PLANT

New Portsmouth Project September 18, 1952—AEC Announced Area Atomic Plant

The new Portsmouth Project is scheduled to begin construction on September 18, 1952. The Atomic Energy Commission has announced that it will be building an area atomic plant in Portsmouth, Ohio.



New Portsmouth Project September 18, 1952—AEC Announced Area Atomic Plant

Goodyear's 112 Pints Of

Goodyear Atomic Corporation has produced 112 pints of a new product. This product is designed to improve the efficiency and productivity of industrial processes.



Goodyear's 112 Pints Of

Three Employees Promoted Within Maintenance Division

Three employees within the maintenance division have been promoted to new positions. These promotions are a reflection of their hard work and dedication to the company.



Three Employees Promoted Within Maintenance Division

1952

GAT HIGHLIGHTS

1962

One Receive Promotions; Other Announced For Technical Division

One employee has received a promotion to a new position. Another employee has been announced for a new position in the technical division.



One Receive Promotions; Other Announced For Technical Division

GAT'S FIRST COMPANY-WIDE PICNIC IS SUCCESSFUL; 5,000 ATTEND ALL DAY AFFAIR AT CAMDEN PARK

The Goodyear Atomic Corporation's first company-wide picnic was a success. Over 5,000 employees attended the all-day affair at Camden Park.

EDUCATIONAL GOODYEAR EMPLOYEES

Goodyear Atomic Corporation is committed to the education of its employees. The company provides a variety of educational programs to help employees improve their skills and knowledge.

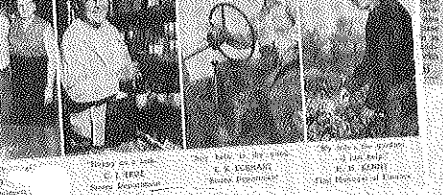


EDUCATIONAL GOODYEAR EMPLOYEES

ment Builds A-Plant

The A-Plant of the Goodyear Atomic Corporation is being built by the Goodyear Atomic Corporation, which is a subsidiary of the Goodyear Tire and Rubber Company. The plant is located in Piketon, Ohio, and is being built to produce uranium hexafluoride for the Humboldt Bay reactor in California.

IN A DAY FOR THESE PEOPLE



These people are the workers of the Goodyear Atomic Corporation. They are the ones who are building the A-Plant, which will produce uranium hexafluoride for the Humboldt Bay reactor. They are the ones who are making a difference in the world.

men y Want

Established Club Plans Outings, Other Social Activities. The Goodyear Atomic Corporation has a club for its workers. The club plans to have outings, social events, and other activities to help the workers relax and have fun.

ED TO RUN A-PLANT

The Goodyear Atomic Corporation has a plan to run the A-Plant. The plan is to use the best people and the best methods to run the plant. The plan is to make the plant the safest and most efficient in the world.

COMES HERE

The A-Plant is coming here. It is coming to Piketon, Ohio. It is coming to the heart of the community. It is coming to help the community grow and prosper.

ject' Put In Piketon Vicinity

The project is being put in the vicinity of Piketon, Ohio. The project is being put in a beautiful area with a rich history. The project is being put in a place where it can make a real difference.

De te Blood

The project is being put in the vicinity of Piketon, Ohio. The project is being put in a beautiful area with a rich history. The project is being put in a place where it can make a real difference.



The project is being put in the vicinity of Piketon, Ohio. The project is being put in a beautiful area with a rich history. The project is being put in a place where it can make a real difference.

GAT's First Class Completes A Phase Of Intensified Training

The first class of workers at the Goodyear Atomic Corporation has completed a phase of intensified training. They are now ready to start work on the A-Plant. They are the best and the brightest of the community.



The first class of workers at the Goodyear Atomic Corporation has completed a phase of intensified training. They are now ready to start work on the A-Plant. They are the best and the brightest of the community.

ASSISTANCE PROGRAM IS POPULAR; DYES CONDUCTING THREE COURSES

The assistance program is very popular. The workers are conducting three courses. The courses are designed to help the workers improve their skills and their knowledge. The courses are being conducted by experienced instructors.



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Several GAT Management Changes Become Effective September 1

Several management changes at the Goodyear Atomic Corporation become effective on September 1. The changes include the appointment of new managers and the restructuring of the organization. The changes are designed to improve the efficiency and effectiveness of the plant.



The changes at the Goodyear Atomic Corporation are designed to improve the efficiency and effectiveness of the plant. The changes include the appointment of new managers and the restructuring of the organization.

1960 GAT's Safest Year

1960 was the safest year for the Goodyear Atomic Corporation. There were no accidents or injuries at the plant. This is a testament to the safety program and the dedication of the workers.

Goodyear Atomic Corporation Faces Great Challenge In 1961 To Improve Safety

The Goodyear Atomic Corporation faces a great challenge in 1961 to improve safety. The plant is being expanded and new equipment is being installed. The company is committed to maintaining the highest standards of safety.



The Goodyear Atomic Corporation faces a great challenge in 1961 to improve safety. The plant is being expanded and new equipment is being installed. The company is committed to maintaining the highest standards of safety.

Continually Try To Improve Methods

The Goodyear Atomic Corporation continually tries to improve its methods. The company is always looking for ways to make the plant safer and more efficient. The company is committed to continuous improvement.

Radiation Protection Important To Goodyear Atomic And AEC

Radiation protection is very important to the Goodyear Atomic Corporation and the Atomic Energy Commission. The company and the AEC are working together to ensure the safety of the plant and the community.



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Company Recognizes Employees For Assistance In Activity Program

The Goodyear Atomic Corporation recognizes its employees for their assistance in the activity program. The employees have worked hard to improve the plant and the community. The company is proud of their achievements.



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GAT Makes First Withdrawal Of Uranium Hexafluoride For Spectral Shift Reactor

The Goodyear Atomic Corporation has made its first withdrawal of uranium hexafluoride for a spectral shift reactor. This is a significant milestone in the development of the reactor.



The Goodyear Atomic Corporation has made its first withdrawal of uranium hexafluoride for a spectral shift reactor. This is a significant milestone in the development of the reactor.

GAT Scientist Urges Students To Technical Field, Participation In Science Fair Valuable

A Goodyear Atomic Corporation scientist urges students to enter the technical field. Participation in science fairs is a valuable experience that can help students develop their skills and interests.



A Goodyear Atomic Corporation scientist urges students to enter the technical field. Participation in science fairs is a valuable experience that can help students develop their skills and interests.

GAT Used To Identify Goodyear Atomic Corp.

The Goodyear Atomic Corporation uses the GAT logo to identify itself. The logo is a symbol of the company's commitment to safety and quality.

GAT To Supply Enriched Uranium To Fuel Humboldt Bay Reactor

The Goodyear Atomic Corporation is to supply enriched uranium to fuel the Humboldt Bay reactor. This is a significant contract for the company and a major step in the development of the reactor.



The Goodyear Atomic Corporation is to supply enriched uranium to fuel the Humboldt Bay reactor. This is a significant contract for the company and a major step in the development of the reactor.

Member Joint Committee Atomic Energy

A member of the Joint Committee on Atomic Energy has visited the Goodyear Atomic Corporation. The member is interested in the progress of the plant and the safety program.

Illinois Lawmaker Makes Routine Visit To Goodyear Atomic

An Illinois lawmaker has made a routine visit to the Goodyear Atomic Corporation. The lawmaker is interested in the progress of the plant and the safety program.



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Labor-Management All-In-One Campaign Starts Monday October 7; Drive Lasts All Week

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Charitable Agencies In Four County Area To Benefit From Drive

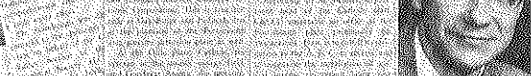
Charitable agencies in the four county area will benefit from the drive. The drive is designed to raise money for these agencies and improve the lives of the people in the area.



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GAT Foremen's Club To Provide Technical Advice And Assistance To Students

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GAT Launches Overall Plant Safety Program

The Goodyear Atomic Corporation has launched an overall plant safety program. The program is designed to improve the safety of the plant and the lives of the workers.



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James-Bright Is First Couple To Meet, Marry While Working At GAT

James and Bright are the first couple to meet and marry while working at the Goodyear Atomic Corporation. They met on the job and fell in love. They are now a happy couple.



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Four Changes In Maintenance Division Announced; Hurt, Leary, Culp, Brown, Nov

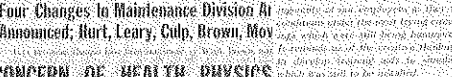
Four changes in the maintenance division have been announced. The changes include the appointment of new managers and the restructuring of the division.



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CONCERN OF HEALTH PHYSICS

There is a concern of health physics at the Goodyear Atomic Corporation. The company is committed to maintaining the highest standards of safety and health.



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A Shift Wins Annual Shift Safety Honor Marks Third Year Without A Disabling I

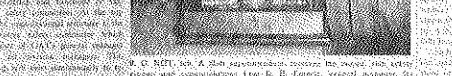
A shift of workers has won the annual shift safety honor. The shift has gone for three years without a disabling injury. This is a testament to the safety program and the dedication of the workers.



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Raises Shift 1,400,000 Accident-F

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City Growth Of Employees' Recreational Activities On GAT's Fifth Anniversary Months Lost Time

The city has seen a growth of recreational activities for employees on the fifth anniversary of the plant. The activities are designed to help employees relax and have fun.



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Cooperation Is Keynote Between Carbide And Goodyear Atomic On A-Plant Problems

Cooperation is the key to solving problems between Carbide and the Goodyear Atomic Corporation. The two companies are working together to improve the plant and the safety program.



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Ake Promoted To Akron Sams, Let Given Promotion

Ake has been promoted to Akron Sams and given a promotion. This is a recognition of his hard work and dedication to the company.



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Improvements Added To Credit Side Of Ledger

Improvements have been added to the credit side of the ledger. This is a testament to the company's financial strength and the dedication of the workers.

A-Plant's Third Anniversary Booms Area

The A-Plant's third anniversary is a time of boom and growth in the area. The plant has brought many jobs and opportunities to the community.

Recognized For New Developments

The Goodyear Atomic Corporation is recognized for its new developments. The company is always looking for ways to improve the plant and the safety program.



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Teachers Selected

Teachers have been selected for the school. The teachers are experienced and dedicated to providing the best education for the students.



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Construction Employment On Downgrade, But Community's Economy Stays At High Level

Construction employment is on a downgrade, but the community's economy is staying at a high level. This is due to the strong performance of the Goodyear Atomic Corporation.



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Made By Goodyear Aircraft

Model Space Station Introduced At NASA

Millions of Americans got their first look at Goodyear Aircraft's prototype space station following its introduction to 45 members of the press, radio and television in Cleveland, Ohio, August 2.

The space station was the first full-scale research model ever shown to the public.

Center of interest at the press conference was a three-story-high inflatable structure designed and built by Goodyear Aircraft Akron and Goodyear Aircraft Arizona. It was unveiled at the Lewis Research Center of the National Aeronautics and Space Administration near Cleveland.

Constructed of special rubberized fabric, the expandable space station is a larger version of a 24-foot model fabricated by GAC for NASA testing purposes at Langley Field,

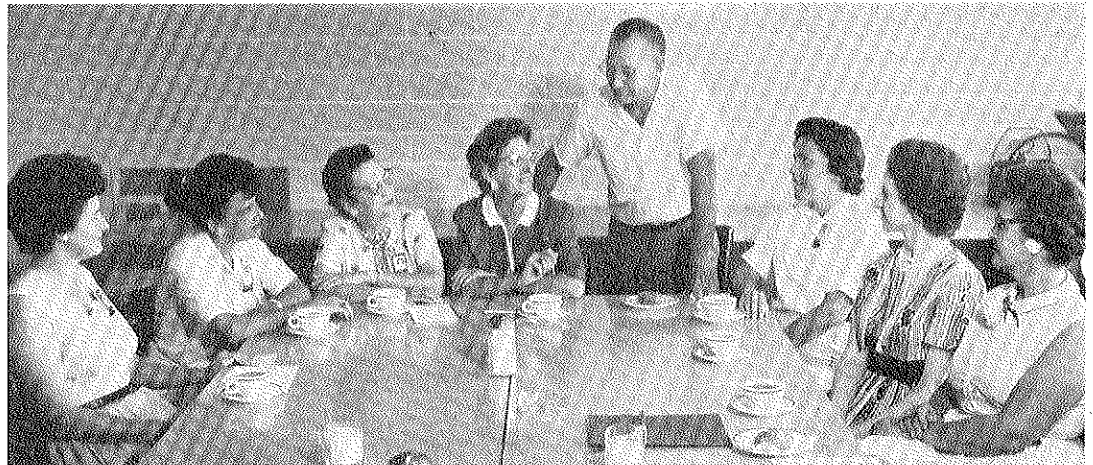
Virginia.

T. A. Knowles, GAC president, said this type of space station could be built 100 feet in diameter or larger. Mission requirements and human factors would set the criteria for the size of future versions.

In orbit the station would be rotated to simulate gravity. This would be accomplished by using compressed gas or solid propellant jets on the periphery of the large ring.

"Using presently known techniques and equipment," Knowles said, "the United States could put a manned space station in orbit by late 1965, corresponding with the availability of booster systems."

The space station is one of various structural concepts for space station systems under study by Goodyear Aircraft.

**ALL ROADS LEAD TO CAMDEN AMUSEMENT PARK THIS SATURDAY**

ONE PHASE OF PLANNING AN ANNUAL PICNIC is the duty of distributing tickets to the employee. M. T. Trowbridge (standing), Reproduction Department, Ticket & Identification Chairman, outlines ticket distribution to secretaries representing each division. From left: Meredith Evans, Purchasing & Materials; Marian Shawkey, Finance; Lela Richey, Plant Engineering & Maintenance; Virginia McDonald, General Manager's Office; Charlotte Webb, Industrial Relations; and Blanche Cales, Technical Division.

GT&R Report Reveals Sales Up Profits Down First Half Of 1962

The Goodyear Tire & Rubber Company increased its sales in the first half and second quarter of this year, but profits were lower for the six months' period mainly because of the impact of foreign currency devaluation in the second quarter.

E. J. Thomas, Goodyear's board chairman, made that report after a meeting of the board of directors in Akron, July 31.

Thomas also announced that the board of directors increased the quarterly dividend from 22½ cents to 25 cents per share, payable September 15 to stockholders of record August 15, 1962, placing the cash dividend on a \$1.00-per-year basis. The board also announced its intention not to declare a stock dividend this year.

Consolidated net sales for the first half of 1962 amounted to \$782,960,311, compared to \$726,151,829, in the 1961 first half, an increase of 7.8 percent.

Net income for the first six months amounted to \$34,647,750, compared with \$38,471,677 in the same period last year, a decrease of 9.9 percent. First half earnings were equal to \$1.00 per share, compared to \$1.11 on the same number of common shares in 1961.

Profits of foreign subsidiaries included in consolidated net income totaled \$9,414,711 as compared to \$14,637,019 during the corresponding period of 1961, after deducting 1962 charges of \$6,456,199 for re-

stricted foreign earnings and devaluation of foreign currency, mainly in Argentina, Brazil, Venezuela, and Canada. In the same 1961 period, this deduction amounted to \$2,226,797.

Goodyear's second quarter sales of \$412,165,757 compared to \$380,498,048 in the 1961 second quarter, an increase of 8.3 percent, and an

11.2 percent increase over the \$370,794,554 sales in the first quarter of this year.

Profits in the second quarter of this year were \$18,806,730, an increase of 18.7 percent over the \$15,841,020 earned in the first quarter of 1962, but were 18.5 percent lower than the \$23,067,618 net income for the 1961 second quarter.

Medical Department Again Offers Flu Shots

Immunizations against influenza will be available to Goodyear Atomic employees beginning September 4. The GAT Medical Department again prescribes one or two shots according to past vaccination records.

The immunizations may be obtained at the GAT hospital during "O" Shift between the hours 0900 to 1130 and from 1300 to 1500. During other than Office Shift, employees may report to the hospital at their convenience.

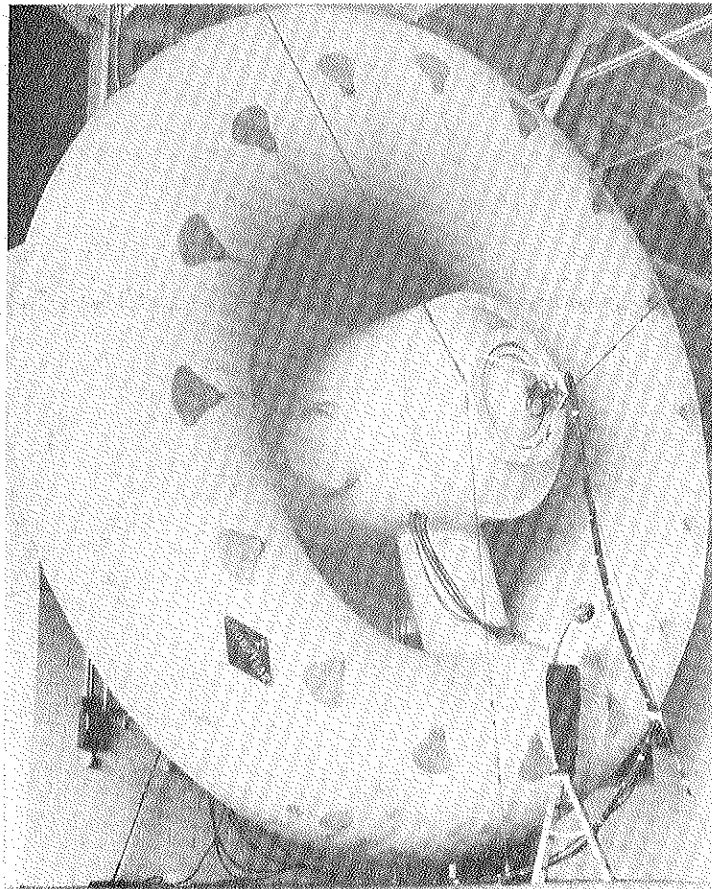
While accurate predictions are difficult, recent patterns of Asian Influenza indicate that this kind of influenza is due in the United States this fall. Outbreaks of it may occur in all parts of the country.

Asian Flu tends to occur in two-to-three year cycles. It was first detected in Hong Kong in 1957 and spread to the United States later that

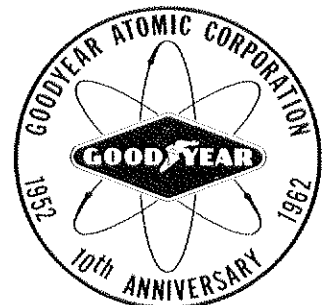
year. Symptoms include fever, coughing, headaches, and muscular soreness.

The U. S. Public Health Service recommends that influenza vaccination begin in September so that protection can begin before the approach of the cold winter weather.

Employees are urged to participate in the flu immunization program. Let's reduce the flu absenteeism by getting your immunizations early.



INFLATION CHECK. A Goodyear Aircraft engineer inspects the inflation of a 30-foot diameter expandable space station unveiled by the company at the National Aeronautics and Space Administration's Lewis Research Center in Cleveland, Ohio. The space station may be a forerunner of larger expandable craft which could be orbited and used for space rendezvous.



THE WINGFOOT CLAN

GOODYEAR ATOMIC CORPORATION

A Subsidiary of THE GOODYEAR TIRE & RUBBER COMPANY

Published semi-monthly in the interest of employees of the Goodyear Atomic Corporation.

Publication Office: Community Relations Department, Industrial Relations Division, X-100 Bldg., Box 628, Portsmouth, Ohio.
Editor, F. D. Hyland.



Telephone
Waverly 5-100
Ext. 2165 or 2514



Member, Association of Nuclear Editors and affiliated with the International Council of Industrial Editors.

ANOTHER MILESTONE?

You, the employees of this plant, will shortly complete another milestone on the way to recording an even more significant safety record . . . 8,000,000 manhours without a disabling injury.

This achievement credits your ability and desire to make this plant the safest possible place in which to work. THIS ACHIEVEMENT DID NOT JUST HAPPEN! It is the combination of several factors.

Recently, when Goodyear Atomic was honored by receiving a special award from The Industrial Commission of Ohio for working 7,057,000 manhours without a lost-time injury, Mr. Reynolds, our General Manager, in accepting the award stated in part: "Half-hearted attempts to support a safety program will not build accident-free manhour records. In fact, inadequate support of a safety program can actually have an adverse effect . . . Goodyear Atomic Corporation has utilized a coordinated program of slogan contests, award programs, shift competition, monthly safety meetings, safety committees, a safety movie starring plant personnel, and promotional material in the form of posters, intra-plant safety news releases, plant billboards, safety articles in plant publications, and safety centered public relations in newspapers, magazines, and radio.

"I believe that it is the recognition on the part of all employees that safety is an integral part of the work program and that a failure or disappointment means a greater determination and a greater desire to fulfill the safety program . . . we have a well-balanced team of seasoned competitors who have shown that they have the desire to win."

Safety is YOUR business. Teach it to others. Accident prevention is a plan of action to preserve the lives of our employees — a safeguarding of human life.

Much has been done to reduce hazards on the job, but it takes a concentrated and coordinated effort by everyone concerned to prevent unsafe acts by ourselves and those around us.

STAY FIRST RATE — LET'S MAKE IT EIGHT!

Status Of Civilian Nuclear Power

(Editor's Note: The following are excerpts of an address delivered by Dr. Glenn T. Seaborg, Chairman of the Atomic Energy Commission, before the 1962 Nuclear Congress in New York City.)

As many of you will recall, President Kennedy directed the Atomic Energy Commission, in a letter dated March 17, 1962, to take a new and hard look at the role of nuclear power in our economy. That study, although well under way, is still in progress and I, of course, am not at liberty to comment on its impending recommendations prior to their submission to the President.

It should perhaps be possible, within the next decade, to develop and build a power plant which produces useful energy on a scale of some hundreds of thousands of kilowatts. Although continued development to the stature of large industry will be technically feasible, its actual development will be subject to political and economic considerations. Should it prove feasible to go ahead, as seems possible from the standpoint of the technical problems alone, it does not seem possible to build up a nuclear energy industry of such proportions that any appreciable fraction of the world's energy production is produced in this manner before several decades.

The special advantages of nuclear energy have been demonstrated by the spectacular operation of nuclear submarines, SNAP devices, and nuclear plants for polar and other remote regions.

One of the aims of the present study is to consider the proper distribution of effort between these basic kinds of power reactors. Paramount is the question of the future need for electrical power and the supply of fossil fuels available for this purpose.

A number of forecasts indicate that by the year 2000 in the United States, the electrical energy production rate will be about 10 times that of the year 1960. Need for power is expected to continue to increase beyond that time, of course, but these longer range predictions are difficult to make. Economic sources of fossil fuels, particularly coal, apparently are adequate to cover all our needs well beyond the year 2000. However, it is clear that the supply of fossil fuels is limited that a new source of energy will be needed in the foreseeable future. This new source of energy can only be that provided by nuclear fission on the basis of present knowledge, although it is not impossible that during the next several decades other sources of energy

may be developed. Further, I do not suggest that nuclear power replace conventional power. It should begin to supplement the energy derived from fossil fuels in the coming years at a pace determined by sound national management of our resources and economic considerations.

The supplies of nuclear fuels, therefore, become important considerations. Analyses indicate that the energy in uranium ore that can be recovered at an economic cost for the use of the contained uranium-235 in burner or very low conversion rate "burner-converter" reactors is only a fraction of that available from fossil fuels.

Breeder reactors using the uranium-238—plutonium-239 cycle can increase the energy from a given amount of natural uranium by a factor of about 100.

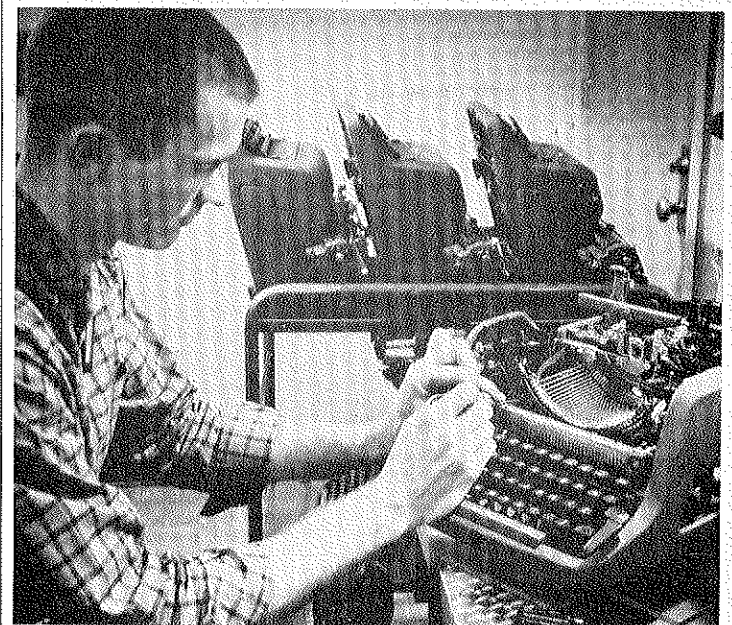
There are, of course, two special advantages of nuclear plants that can be touched on parenthetically in any consideration of their place in the national power picture. First, nuclear plants are clean. They will not add to the smog problem in con-

gested areas. Secondly, nuclear plants could supply power to an area for many years in the event that transportation facilities were destroyed in a national disaster and the flow of fossil fuels to conventional power plants was cut off.

Finally, there is one very general over-riding factor which must be taken into account in our consideration of the future of civilian nuclear power in this country. This is the sound national management of our resources. It is clear that sometime in the future our supplies of the fossil fuels — coal, oil and gas — will become exhausted. Sound management would seem to require that we begin planning our national uses of resources in such a manner as to maximize these fossil fuels in their many other applications.

Let me leave you with the strong assurance that the Atomic Energy Commission, and the entire Administration, are aware of the problems and potentials before us all. The Commission and the Administration are now making a careful evaluation which will be completed soon.

COST CONTROL



"NOW IS THE TIME FOR ALL GOOD MEN TO COME TO THE AID OF" — the office secretaries . . . Repair and upkeep of the Company's office equipment is a never-ending job with GAT's Office Equipment Services. Presently, the Company has 224 electric and manual typewriters valued in excess of \$66,000. In the above photograph, Jack Baer, Office Equipment Services Department, makes a routine check of a typewriter.

"Teamwork For Progress"

Peacetime Uses Of The Atom

(Continued from Page 4)

current AEC price schedules.

Yankee Atomic is a pressurized water reactor. To date, its operation confirms the most optimistic expectations of its designers and owners. The 150 megawatt reactor has operated reliably and essentially trouble free, and has demonstrated stability under all operating and transient conditions, having been available for the generation of power in excess of 90 per cent of the time. The plant was built at a total cost of \$43.7 million as against original estimates of \$57 million. In addition, the actual power output exceeded design value by approximately 30 per cent.

The 180 megawatt Dresden nuclear power plant, owned by the Commonwealth Edison Co. at Morris, Illinois, received all the fuel for its second core loading from GAT. This reactor has demonstrated simplicity of operation, stability and excellent response of large boiling water reactors. In addition, its design power has been exceeded with less fuel than originally contemplated.

The 48.5 megawatt Humboldt Bay plant, Eureka, California, owned by Pacific Gas & Electric, is scheduled to go on stream by the end of 1962. Material for this reactor was provided by GAT during the latter half of 1960 and early part of 1961. The reactor, boiling water type, employs some new safety concepts which tend to minimize radioactive danger in case of steam releases due to rupture of the reactor vessel.

In March, 1962, the final shipment of material was made for the Spectral Shift Control Reactor program being conducted by the Babcock and Wilcox Company for the AEC. This reactor embodies a new concept which utilizes a mixture of heavy and light water in a pressurized water reactor. Variation of the heavy water concentration over the lifetime of the core loading is used to change the neutron spectrum and control excess reactivity.

Numerous other programs exist or are planned in which uranium produced at GAT will ultimately play a vital role. It is predicted that the expansion of commercial nuclear activity will continue creating an ever increasing demand for uranium material at various enrichments.

The success of the many nuclear projects and the reduction in uranium

costs are encouraging signs. Price reductions on base charges of uranium in the past two years result in a cost savings to uranium users of 30 to 40%.

The highly publicized success stories of nuclear projects, however, do not always tell the complete story. More often than not the never-ending, take-it-for-granted contributions, made by people who are vitally necessary to get a job done, are seldom related.

For example, many GAT employees perform necessary functions for the plant to meet its responsibility for special material requests. In general, the Uranium Control Subdivision is responsible for the overall administration; however, functionally, personnel from practically every division of GAT are involved.

The Production Division contributes significantly to the excellent service GAT has been able to maintain in fulfilling requests. Personnel of this division must operate the cascade and actually make the material withdrawals. They must perform both of these functions so that an adequate quantity of material is provided and assure that the material is as specified. When you consider that of the more than 1,600 cylinders shipped of various types and assay enrichments, not one cylinder of material has been off specification, you can recognize the effort made by cascade operations to maintain Goodyear quality. In addition, they continue to strive for better service by testing and establishing new operating techniques. A recent withdrawal technique instituted by them can provide, economically and efficiently, an unlimited quantity of material in the maximum shortest time.

The Works Laboratory also plays a major role in maintaining GAT's high quality standards. The uranium and uranium-235 measurements they make on the GAT material not only provide for the necessary accountability, but are required by the material users so that they can batch and blend to obtain near perfect material uniformity. Additional measurements by the laboratory provide the information on various contaminants and metallic impurities. All of these measurements, in the final analysis, give the necessary assurance of quantity and quality that is important to GAT, AEC, and the material user. Recognizing the impor-

tance of the measurements, the laboratory is continually seeking and checking new and better analytical techniques by which accuracy and precision of measurements can be improved. As a mark of its accomplishments, GAT can take pride in the fact that the Works Laboratory was recently chosen as an independent umpire lab which will aid in the arbitration of measurement disputes.

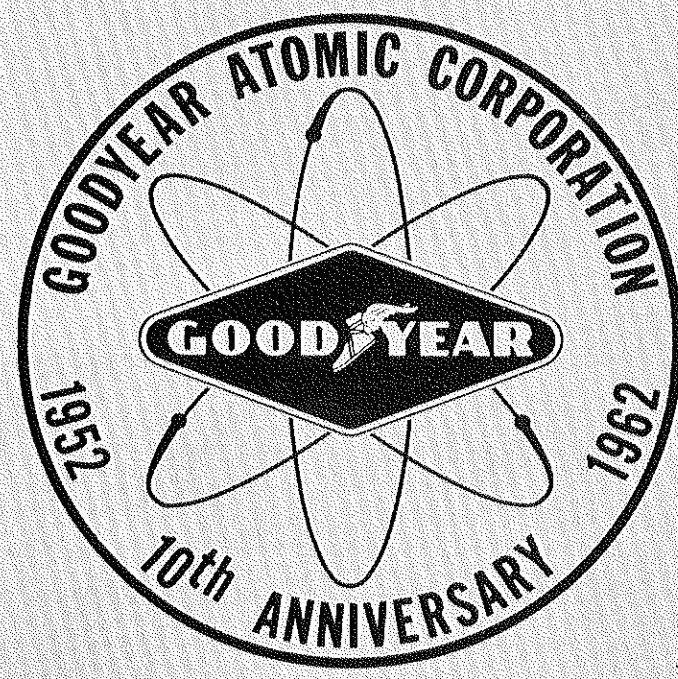
Another department at GAT that performs in a physical manner is the Shipping and Receiving department. They assist in the movement of shipments off and on plantsite. Shipments can be made from GAT by either customer vehicles, as is the case with NUMEC, or by the many forms of commercial transportation.

The SS Materials Handling Department performs the multi-function of making all plantsite cylinder movements and preparing, weighing, sampling, and packaging each cylinder.

Certain other administrative functions are also required. The Process Engineering Department must prepare and issue the necessary operating specifications and memos of instructions to the cascade for all withdrawal activity. The Accounting Department must accumulate all costs against an order request and make the appropriate cost transfers. Any other financial transactions or instructions authorized by the request are also expedited by the Cost Accounting group.

The picture story on page 4 depicts the functions of the many group activities that have been outlined. However, in actuality every GAT employee, in some manner, is associated with GAT's ability to perform and serve efficiently and adequately. By everyone's cooperative effort a contribution is being made to the new and challenging field of the peaceful use of the atom. There is no doubt that continued research and development will advance the scientific knowledge and technical progress which will make atomic energy a part of our everyday life. It is expected that many of these developments will contribute promptly to our welfare, others can be expected in the long term. However, without the material efforts of GAT, it is conceivable that many of these benefits would be lacking, or surely curtailed until much later in the future.

Family Day Celebration August 25



GOODYEAR ACCEPTS CHALLENGE

(Continued from Page 3)

have been promoted within the parent organization and one has retired.

Mr. Gracia assumed the responsibilities of Director of Research and Development; Mr. Merrill became Assistant Director of Research; Mr. Francis was promoted to Director, Domestic Chemical Products; Mr. Hilliard was made Director, Personnel, Goodyear International Corporation; Mr. Gharky was transferred to Akron as Director of Purchases for the GT&R company. Mr. Kenny, the "dean" of Goodyear Atomic Corporation retired from the company with nearly 47 years continuous service with Goodyear.

The transfer of these men to other management positions within Goodyear brought about numerous promotions at GAT. Mr. Reynolds was made general manager on September 1, 1961, when Mr. Francis transferred to Akron. D. W. Doner assumed the responsibilities of manager of industrial relations division following Mr. Hilliard. W. L. Sams was promoted to manager, finance division, upon Mr. Kenny's retirement. C. L. Jenkins became manager of purchasing & materials division when Mr. Gharky was promoted. Dr. C. R. Milone was promoted to manager of the technical division on the recall of Mr. Merrill. Dr. Milone

later was named deputy general manager.

Many other GAT alumni have assumed responsible positions within the parent organization — a result of the training received and the significant contribution they made to the success of Goodyear Atomic Corporation.

TEN YEARS AT GAT

(Continued from Page 2)

The accomplishments of Goodyear Atomic Corporation over the past ten years is a credit to each employee.

With the continued efforts of every member of Goodyear Atomic Corporation, the plant will continue to contribute to the national defense and also provide material for the peacetime uses of atomic energy, and as a result, take a significant place in the world of today.

New Arrivals

Mr. and Mrs. H. M. Cutright, (security investigation department), daughter, Rebecca.

Mr. and Mrs. N. G. Wines, (process area 1), daughter, Tamara Jane.

Mr. and Mrs. Roger Kempton, daughter, Kimberly Ann. The mother, Kay, is a former employee of the reproduction department.

GOLF

Company And Flight Championship

FIRST	SECOND	THIRD	FOURTH	FIFTH
Trivisonno	Mutter	Bridwell	Kauffman	Wakefield
Pollard	Brant	Cormany	Huels	Cottle
Voss	Fuller	Ellsesser	Holthaus	Richey
Zelinski	Ruel	Steinbach	Kizer	Tovine
Reed	Russell, G.	Collier	McCann	Savage
Sellers	Jones, D.	Gilliland	Redden	Butcher
Robinson	Milone	Spriggs	Sutton	Marshall
Pickens	Thomas	Flinders	Huddle	Spring
DeVito	Bickett	Fleming	Vita	Dearth
Thoms	Holland	Gill	Baumgardner	Zeisler
Johnson	Smith, I. G.	Hale	Shoaf	Duncan
Owens, R.	Casey	Wolford	Brackey	Weber
Schneider	Owens, R. D.	Yeley	Dever	Wilkerson
Cashman	Galloway	Rutherford	Emshwiller	McComb
Entler	Goodman	Watts	Jennings	Langebrake
Oakley	Nelson	Tabor	Russell, J.	Wilson
Walder	Pray	McGhee	Stoops	Whitfield
George	Smith, W. A.	Clark	Wiehle	Murnahan
Connery	Williams	McNish	Geneva	Prario
Jones, R.	Miller	Cravens	Campbell	Walker
Jenkins	Wickline	Shoemaker	Seufzer	Blanton
Boeye	Bowers	Landstrom	Mentges	Dawson
Bruno	Haas	Owens, H.	Lamb	
Forsyth	Slaughter	Murrell	Chapman	
		Christopher	Massie	
		Nichols	Phunkett	
		Osborne	Hockenheimer	
		Woods	Harshman	
		Wise	Pitts	
			Chandler	
			Richardson	

GAT Women's Club Of Portsmouth Plan Sale

The GAT Women's Club of Portsmouth will conduct a "White Elephant" sale on Saturday, September 29. The sale, which will benefit various charitable agencies in the Portsmouth area, will be held in the auditorium of the Salvation Army, 9th & Findlay Streets, Portsmouth, from 9 a. m. until 5 p. m.

Available items for sale will include furniture, pictures, vases, kitchen utensils, lamps, jewelry and clothing.

Anyone in the Portsmouth area desiring to donate items may contact the following members of the Club: Mrs. J. R. Shoemaker (EL 3-0358), Mrs. O. Vita (EL 4-2210), or Mrs. Donna Jenkins, laboratory services subdivision, telephone extension 2688.

"For the past several years," said Mrs. H. H. Stoops, Jr., Club President, "The GAT Women's Club has conducted various fund raising events to support the Happy Hearts School. More recently, we have ex-

panded and contributed to other worthwhile causes in the community."

GAT Bowling Leagues Begin Next Month

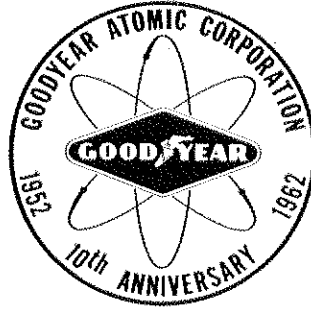
The 1962-63 bowling season begins next month. GAT leagues should be organized and ready to go.

The recreation department needs the following information: name of league; copy of league rules & regulations; and the league schedule.

In addition, the league president should notify the recreation department who will serve as league representative on the GAT Bowling Committee.

The Bowling Committee will be responsible for formulating the 1962-63 tournament schedule.

Employees desiring to bowl in a "C" Shift League should contact Ben Murnahan, process area 3 (ad phone 2603), or Chuck Daniels, process area 1 (Ad phone 2277).



ATOMIC TERMS And What They Mean

NUCLEAR REACTION. Result of the bombardment of a nucleus with atomic or sub-atomic particles or very high energy radiation. Possible reactions are emission of other particles or the splitting of the nucleus (fission). The decay of a radioactive material is also a nuclear reaction.

NUCLEUS. The inner core of the atom. It consists of neutrons and protons tightly locked together.

PAIR PRODUCTION. The conversion of a gamma ray into a pair of particles — an electron and a positron. This is an example of direct conversion of energy into matter according to Einstein's famous formula: $E = Mc^2$; (energy) = (mass) x (velocity of light)².

PHOTOELECTRIC EFFECT. Occurs when an electron is knocked out of an atom by a light ray or gamma ray. This effect is used in an "electric eye". Light falls on a sensitive surface knocking out electrons which can then be detected.

PHOTON. A bundle (quantum) of radiation. Constitutes, for example, X-rays and light. In certain processes gamma rays behave as photons.

PIG. A container (usually lead) used to ship or store radioactive materials. The thick walls protect the person handling the container from radiation.

Classifieds

FOR SALE

1962 Chevrolet II Nova Station Wagon. 12,000 miles, 6 cylinder with power glide. Will consider '56 or '57 model as trade-in. Telephone Waverly 612.

Winchester, Model 50, 3-shot automatic 12-gauge shotgun with 28" modified barrel. Telephone Wellston 4-3183.

.32 cal. Winchester Model 96, lever action. Holds 8 rounds of ammunition. Cartridge belt. Approximately 80 rounds of ammunition. Like new. \$50. Telephone Piketon 4931.

Seat Belts Save Lives

Studies of the use of automobile seat belts frequently have been misinterpreted when translated into ac-

tual number of lives saved and injuries prevented.

The studies show that seat belts do save lives and reduce injuries. A special committee was set up by the National Educational Seat Belt Program to evaluate available data.

The committee agreed that if seat belts were installed and used in every motor vehicle, they would save 5,000 lives a year and reduce serious injuries by one-third.

Holt Re-Elected To Safety Group Board

Victor Holt, Jr., GT&R Executive Vice President, has been re-elected Chairman of the Board of Directors of the Auto Industries Highway Safety Committee.

Also re-elected at a meeting in Detroit were Charles F. Moore, Jr., Vice President, Public Relations and Advertising, Ford Motor Company, as Vice Chairman; and Lyle O. Remde of Omaha, Nebraska, President of the National Tire Dealers and Retreaders Association, as Secretary-Treasurer.

The board voted to continue its support of the "Action Program" of the President's Committee for Traffic Safety. This program includes emphasis on keeping cars in good driving condition, high school driver education, youth participation in traffic safety, the "Women's Crusade for Seat Belts," the "Drive for a Safe Holiday" campaign, adequate highways and cooperative traffic safety activities within states and communities.

PILE. A nuclear reactor. Called a pile because the earliest reactors were "piles" of graphite blocks and uranium slugs.

PITCHBLEND. An ore containing both uranium and radium. The Curies had to purify tons of pitchblende to obtain a barely visible speck of radium.

PLUTONIUM. A heavy element which undergoes fission under the impact of neutrons. It is a useful fuel in nuclear reactors. Plutonium does not occur in nature but can be produced and "burned" in reactors.

COST OF ACCIDENTS

Accidents cost the nation an estimated \$14.5 billion in 1961, according to the 1962 edition of "Accident Facts," published by the National Safety Council.

The cost of accidents includes wage losses due to temporary inability to work, lower wages after returning due to permanent impairment, present value of future earnings lost by those totally incapacitated or killed — all of which totaled \$4.1 billion; medical fees and hospital expenses, \$1.4 billion; administrative and claim settlement costs of insurance, \$3.2 billion; property damage in motor vehicle accidents, \$2.3 billion; property destroyed and production lost due to work accidents, \$2.3 billion; and property destroyed by fire, \$1,209,000,000.

Motor vehicle accidents alone cost \$6.9 billion, and work accidents cost a total of \$4.6 billion.

VOLLEYBALL PLAYERS

You volleyball enthusiasts take note. Begin to organize your team. Submit the team roster to the recreation department.

League play will begin the first week of October. The league will compete in Waverly on Monday evenings.

Most powerful is he who has himself in his own power.

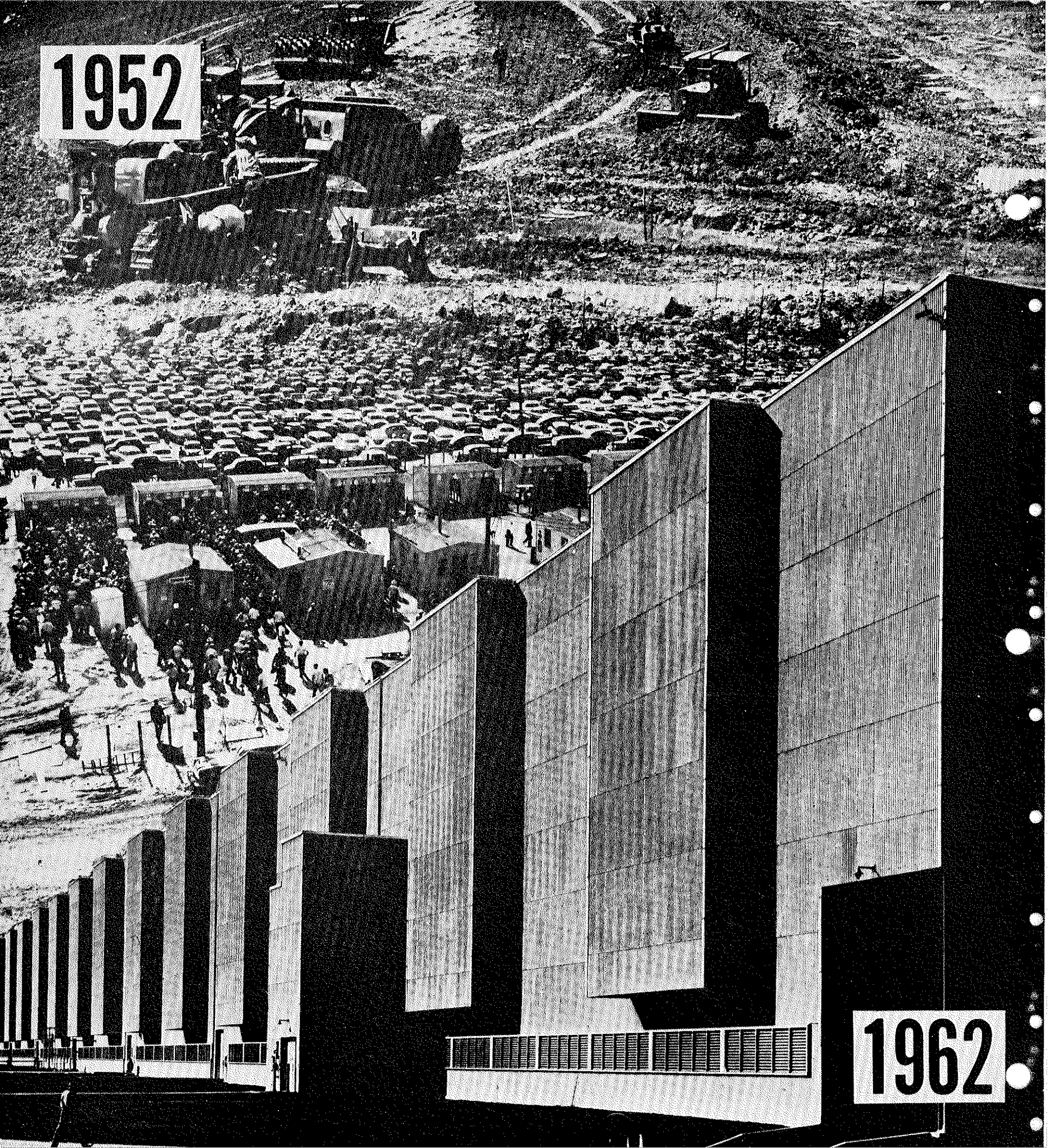
CREDIT UNION INCREASE

The number of Credit Unions in the U. S. has increased to 21,000 and total membership is just under 13 million, according to a recent report of the Credit Union National Association. The number of Credit Unions rose during 1961 by 1170, or close to 6 percent, while the membership gains totaled 900,000, or 7 percent above 1960's level.

Total assets of Credit Unions reached almost 6.3 billion dollars at the end of 1961, compared to 5.6 billion dollars a year earlier and slightly over one billion dollars at the end of 1950.

— American Banker

1952



1962

