

The WINGFOOT CLAN

Goodyear Atomic Corporation

The Goodyear Tire & Rubber Company

A Subsidiary of

Volume 20

Piketon, Ohio, November, 1973

Number 11

GAT Inventors Recognized

Recent Patent Applications Filed

Recently several GAT employes were recognized for their technical competence at the time they executed patent assignments to the U. S. Government which will file formal patent applications with the United States Patent Office. Each inventor was honored at a recognition ceremony in the General Manager's office during which time the final legal assignments were completed. After presenting a fee and a personal letter to each inventor, General Manager C. D. Tabor emphasized the feeling of pride that he and the employes' supervision have for the creativity that the inventors have demonstrated in their development of new devices or new processes which may significantly benefit our Government, primarily the AEC, through directly or indirectly enhancing the more economic production of enriched uranium. In addition to these recent cases, since start-up, eight patent assignments have been made and six patents have been granted. The patents granted are in the name of the inventor with all rights assigned to the U. S. Government. Private individuals or corporations may negotiate non-exclusive licenses with the Government for use of any unclassified patents.

Norman F. Reiter, Process Technology Department, is one of the recent inventors to be recognized. His innovation titled "Method for Recovering Fluorine from Gas Mixtures" brings a fluorine feed gas containing oxygen and/or nitrogen in contact with a permeable bed of iron oxide pellets or steel wool as a means of removing the fluorine. With the potential increase in interest in further limiting fluoride emissions to the atmosphere, this safe and efficient method could prove to

be extremely valuable in future environmental control programs.

Also based on their work in the Process Technology Department, Dr. Roy I. Kaplan and Reed H. Walters are the inventors of a classified invention, "Method for Treating Gaseous Diffusion Barrier." This patent involves a method to restore the gas permeability of barrier and has already proved to be a most useful and money-saving technique for the gaseous diffusion industry.

Gerald E. Bobo and former employes James H. Hipple and Edward M. Petrosky, Mechanical Development Department, were recognized for their invention titled "Improved Gate Valve." This improved design of a process double-disc gate valve includes rotatable valve discs which are lowered to a selected position within a casing and then moved transversely outward to close inlet and outlet ports of the valve. This modified valve concept will permit more reliable operation of large gate valves at higher pressure differentials and will eliminate damage to valve components which has been a problem of long standing in the process areas.

Gerald E. Bobo is also the most recent inventor of a classified innovation titled "New Stage Compressor." While all legal assignments have been made, the formal application for this patent has not been filed but will be in the near future. This improved compressor design should provide significant cost reductions when used in new gaseous diffusion stages and is expected to provide higher capacity and efficiency than existing axial compressors.



PATENT ASSIGNMENT — A letter of appreciation and fee are presented to Norman F. Reiter (D-521) by General Manager C. D. Tabor. Tabor honored Reiter for the assignment of his patent titled "Method for Recovering Fluorine From Gas Mixtures" to the U. S. Government. This method could prove to be extremely valuable in future environmental control programs either at the Portsmouth facility or other AEC or government facilities.

GT&R Third Quarter Earnings Down As Sales Show Increase

GT&R sales for the third quarter and first nine months of 1973 set records although earnings were below the comparable 1972 periods, Board Chairman Russell DeYoung and President Charles J. Pilliod Jr. announced.

Sales for Goodyear in the three months ended September 30 reached \$1,158,300,000, a 15.2 per cent gain over the \$1,005,100,000 in sales during the year-ago period.

Third quarter net income totaled \$29,600,000 or 41 cents a share, down 32 per cent from the \$43,600,000 or 60 cents a share, in the same three months of 1972 and breaking a string of nine record quarters that began in the second quarter of 1971.

DeYoung and Pilliod said Goodyear's sales for the first nine months were \$3,438,500,000 or 15.2 per cent ahead of the \$2,986,000,000 in sales for the like 1972 period.

They reported that net income was down 4.4 per cent to \$130,800,000, or \$1.79 a share, vs. earnings of \$136,800,000 or \$1.88 a share, in the same nine-month period last year.

The company earned 2.6 cents on each dollar of sales in the third quarter compared with 4.3 cents for the same period in 1972. For nine months the earnings per dollar of sales was 3.8 cents while for the same period in 1972 it was 4.6 cents.

DeYoung and Pilliod said that among the more important reasons for the lower third period earnings was that the United Rubber Workers struck the company's largest radial auto tire plant at Union City, Tennessee, for 61 days; its largest auto tire plant at Gadsden, Alabama, for

35 days; and other tire plants at Tyler, Texas and Conshohocken, Pennsylvania.

They noted that these work stoppages resulted in the loss of 1,133,330 production man-hours.

They also pointed to the company's inability to recover increased labor and material costs. Price increases announced early in June had to be suspended because of the 60-day price freeze ordered by President Nixon.

Subsequently, the Cost of Living Council reduced by one-half the allowable proposed price increases on tires and related products, justified by cost data presented to the Council. The approved price increases could not be made effective until October 8.

The Goodyear officers noted labor and benefit costs increased 7.2 per cent effective July 1 under a new three-year contract signed with the United Rubber Workers. Other factors having an adverse effect on third quarter results included the depressed state of the tire industry in Europe, particularly in Germany, increased prices of raw materials, especially natural rubber which has doubled in price since the year-ago period, shortages of raw materials, particularly petrochemicals used in the production of chemicals and synthetic rubber, and increased short-term interest rates.

Company Expands Tuition Aid Program For Employes

GAT's Educational Assistance Program for employes has been liberalized for all courses that began after September 15, 1973.

Major improvements in the program are as follows:

1. The six-month continuous service requirement for new employes has been eliminated.

2. Tuition advance has been increased from \$100 to an unlimited amount (up to the amount of tuition).

3. Tuition refund has been increased to a no hour or dollar limit.

4. No prior college education is now required to enter the bachelor's degree portion of the program. Previously an employe must have completed at least two years of college to be eligible.

5. Participants in the bachelor's degree program will be reimbursed for 100 percent of their tuition upon completion of each approved course. Previously, 50 per cent of the tuition was reimbursed upon completion of a course and the remaining 50 per cent was reimbursed upon graduation. (Employes already enrolled in the program and who had 50 per cent of their tuition withheld

will not be reimbursed until they graduate.)

Any full-time employe who is on the active payroll at the time of application is eligible to receive reimbursement. This includes studies toward an Associate Degree for a technical college such as Scioto Technical, as well as bachelor and advance degrees from accredited colleges.

Also, reimbursement is for tuition only and does not include books, general fees, laboratory fees, parking and other items. All classwork must be taken on the employe's own time. There is no restriction as to the number of credit hours per year per participant. Tuition assistance from other sources is not duplicated, including veteran's benefits.

Under the revised program special emphasis will be aimed at course work that relates directly to the company's needs and the employe's present or future employment with the company. Courses of study not normally used in the company are not

eligible for tuition assistance. Examples are education, music, physical education, pre-law, pre-medicine, and social work.

Courses must be taken for credit and a satisfactory grade received. Non-credit courses that are audited are not eligible for reimbursement. To be eligible for reimbursement, courses must be approved by the Director of Training. Reimbursements under this program are, by law, treated as income and normal taxes are withheld.

Reimbursement also applies to graduate studies. Any full-time employe who has a bachelor's degree from an accredited college may participate in the graduate study program. This program pays the entire cost of tuition, upon satisfactory completion of each approved subject taken in the normal quarter or semester pattern.

Further details on the Educational Assistance Program can be obtained from General Training, X-100, First Floor, South Wing. Application forms are available at that location.

The WINGFOOT CLAN

GOODYEAR ATOMIC CORPORATION

A Subsidiary of THE GOODYEAR TIRE & RUBBER COMPANY
 ATOMIC ENERGY ACTING UNDER A COMMISSION CONTRACT AT (34) 231

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 Goodyear Atomic Corporation
 An Equal Opportunity Employer

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Member - International Association of Business Communicators

Job Openings

A variety of employment opportunities exist at GAT due to expansion activities.

These include openings in the skilled crafts for the following classifications: Machinist AA, Welder 1st Class, Maintenance Mechanic 1st Class, Electrician 1st Class, Instrument Man 1st Class, and Sheet Metal Mechanic 1st Class.

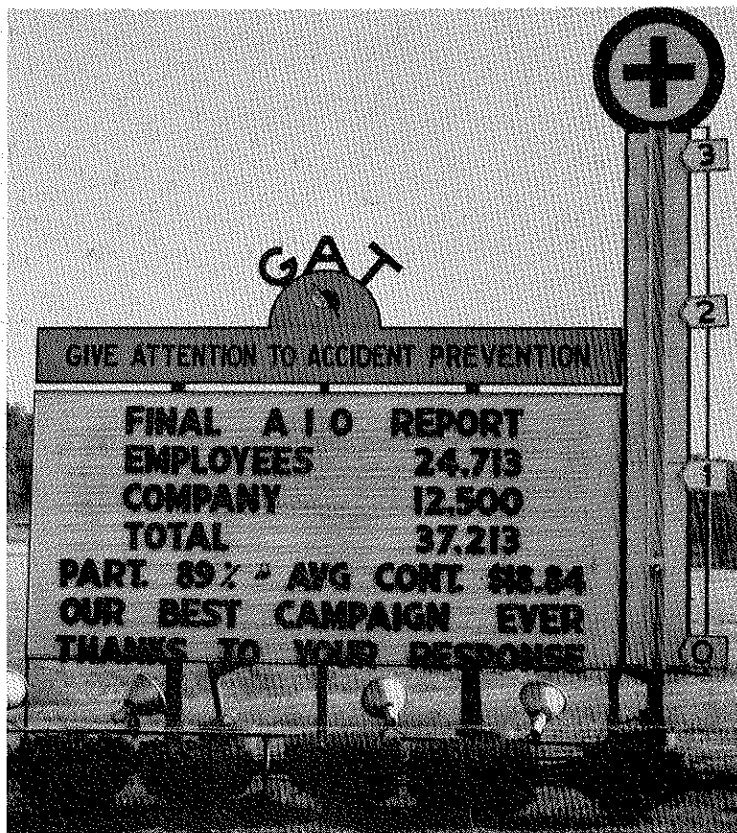
In the areas of Development, Plant Engineering, and Production, there are opportunities for experienced mechanical, electrical, and nuclear engineers, draftsmen, and cost estimators.

New college graduates with B.S. degrees in chemical, mechanical, and electrical engineering are also being sought.

Employees are encouraged to refer qualified applicants for any of these positions to Employment for consideration.



COMPLETE COURSE — C. A. Mentges, Superintendent, Cascade Operations, congratulates Bill Landrum upon completing the home study course, "The Successful Supervisor." Also, completing the course and displaying his certificate is Demetrius Long. Looking on (l. to r.) are Al Baughman and F. J. Weeter, Jr.



Employees Respond To Appeal

All-In-One Is Success

Congratulations! Our goal in 1973 — "LET'S MAKE THIS OUR BEST CAMPAIGN EVER" — was met as YOU responded generously to a most worthy cause.

Final All-In-One tabulations show that Goodyear Atomic Corporation employes contributed \$24,713.25, an increase of \$1,920.65 over a year ago. The Company gift was increased to \$12,500 this year, making a grand total of \$37,213.25 available for distribution to local area United Funds. The combined total this year was nearly \$3500 in excess of that a year ago, which represents a 10 per cent increase. The average individual contribution amounted to \$18.84, an all-time high, and an increase of \$.95, as compared to last year.

This didn't just happen. It was the result of an all-out joint effort by labor and management to insure that each employe was given an opportunity to participate. Labor Co-Chairmen Dick Dever (OCAW) and Joe Rhea (UPGWA) did an outstanding job representing their locals in the joint effort. To all of the solicitors and other volunteers, our sincere thanks for a job well done.

Funds were distributed to the United Funds as indicated by employes' pledge cards. The Company gift was divided among the counties according to the percentage of contribution established by the employes.

Following is a breakdown for each local area United Fund:

Jackson	\$ 3,419.44
Pike	10,581.22
Ross	8,052.14
Scioto	15,160.45

Contributions designated for areas other than the four counties will be forwarded to the specified United Funds.

Once again, Goodyearites, "Thanks a million!" Your individual donations and the Company's contribution will go far toward meeting local area community needs.

Reporting Off

When you find that you are unable to report for work as scheduled, it is your responsibility to inform your supervision as far in advance of your starting time as possible.

The best method for reporting an absence is by telephone. The number to call is the regular GAT telephone number, (614) 289-2331. For employes living outside the area served by the Waverly telephone exchange, this is a long distance call which should be placed on a collect basis. If a long distance call is dialed direct or placed on other than a collect basis, the employe must pay for the call. So, remember, call "collect" when reporting an absence.

Notice Regarding Pension Plan

As required by the Welfare and Pension Plans Disclosure Act, the Company files a description and an annual report in connection with your pension plan with the U.S. Department of Labor.

Participants and beneficiaries are entitled to examine copies of the description of the plan and the latest annual report at the Cashiers Department of the Goodyear Atomic Corporation, P. O. Box 628, Piketon, Ohio 45661 during the regular business hours.

You may also obtain a copy of the description of the plan and a summary of the latest annual report by sending a written request to the above address. Copies will be mailed within 30 days of receipt of request.

AEC Plans Citizen Workshops

A series of workshops has been launched by the Atomic Energy Commission to assist concerned citizens to better appreciate the critical problems connected with production of energy and the associated environmental damage.

The AEC Citizens' Workshop program has been designed to utilize the educational capabilities of science museums and other facilities to provide opportunities for concerned citizens to become more involved in the decision-making process connected with energy and environment problems at the local, state, and national levels.

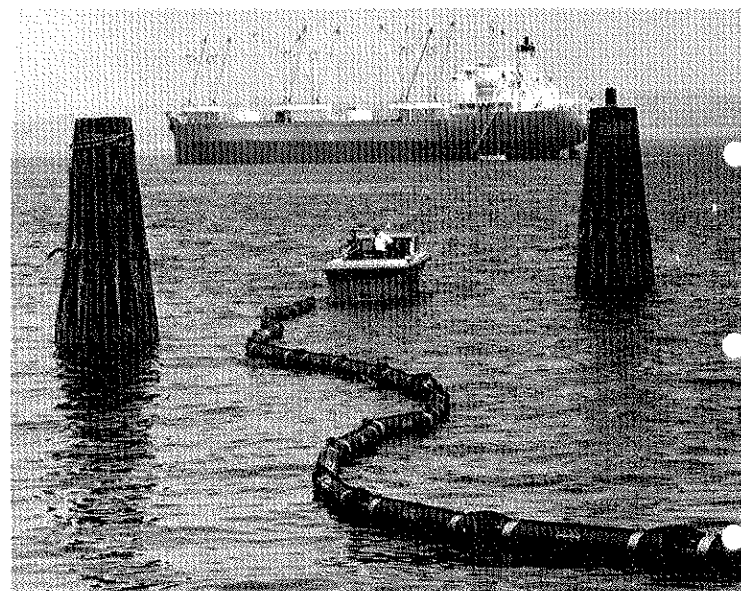
Staff members of Oak Ridge Associated Universities and other educational institutions across the nation are conducting the workshops, which are designed for participation by members of a variety of civic, service, and social clubs and community organizations. A typical workshop involves 24 participants for three hours.

The first hour is a lecture presentation with audience participation, to lay the groundwork for the succeeding two hours. The presentation centers on a discussion of how energy is produced, how it is used, and how it affects the environment.

The second hour is devoted to playing an electronic game — an energy-environment simulator — that challenges the participants to control energy production, make decisions about its use, and observe the environmental effects of these decisions on an accelerated time scale of one century a minute. The accelerator was designed by John Yegge, assistant chairman of ORAU's Special Training Division, and consultant John Amend of Montana State University. It was constructed by the Special Training Division and the ORAU Technical Services Department.

The final hour is set aside for discussion by staff and participants, with no limitation on topics. The desired result is that each participant will formulate his own plan of action to understand, and cope with, local and national energy-environment problems.

The present schedule calls for more than 40 workshops to be conducted in 29 states during fiscal year 1974, from Portland, Oregon, to Boston, Massachusetts, and from Albany, New York, to New Orleans, Louisiana.



OIL CORRAL — A floating oil containment barrier built by Goodyear is towed into position during tests off Seattle, Washington. Designed to fence in oil spilled on inland or offshore waters, the Sea Sentry boom also can be permanently deployed in shipyards and oil terminal areas.

Review of Labor Relations

The following arbitration awards were received from Marlin M. Volz, who acted as arbitrator and heard the cases on September 13.

GRIEVANCE III-34-72

Issue: Was the discharge of the grievant, J. P. Harding, unjustified? If so, to what remedy is he entitled?

Statement of Facts and Contentions of the Parties: The Company concludes that it had gone as far as it could in the use of progressive discipline to change the grievant's attitude so that he once again would become a productive employe but that its efforts to do so had failed. The Union contends that the grievant's attitude and work performance did improve after his suspension in April and that the final charges against him were insufficient for termination in that his work performance included unavoidable delays beyond the grievant's control.

Discussion: The grievant was terminated for unsatisfactory work performance. Such offense may be based upon a pattern or repetitive acts of substandard performance and need not be confined to acts or omissions occurring on the day of dismissal. Thus, management properly could consider his work performance on days earlier in June and on the question of penalty could consider his past record and the results of its program of progressive discipline.

Upon evaluating the evidence the arbitrator is persuaded that the Company has met its burden of proof by establishing that on June 26, and on earlier days in June, the grievant was guilty of substandard work performance of the type popularly known as "goofing off". He was taking excessively long coffee and other breaks; was absent on a number of occasions from his place of work without permission; and, when at work, it was not uncommon to find him working at a pace below that of the average employe. Why he chose to demean himself from an excellent to a substandard worker, the evidence does not disclose. Once an employe habitually deviates from the accepted norm in his faithfulness to his work, he cannot complain if he is subjected to close supervision. Such close supervision in itself does

not constitute discrimination. He largely brings such situation upon himself. The evidence is convincing that any deterioration in the relationship between him and supervision was as much his fault as that of his supervisors. He could not expect irregularities in his work performance of the type involved to be lightly dismissed with good-natured indifference. He had to work for his pay as any other employe. Of course, the collective bargaining agreement and its administration must be color blind: neither disfavoring or favoring the individual on the basis of race, creed, or skin color. This rule applies to employes as well as to supervisors.

Having found that on June 26, 1973, the Company properly concluded that the grievant had committed a disciplinary offense, the only remaining question is whether termination was too severe under the circumstances. In weighing and balancing the aggravating circumstances with those in mitigation, the arbitrator concludes that the grievant should be given another opportunity to change his attitude and to improve his work performance to an acceptable level. It must be acknowledged that for several months the grievant had not had a good work record. In his defense it would have been helpful had it been better. He, of course, was primarily responsible for his own record and must accept the consequences if that record justifies the imposition of a severe discipline.

However, the grievant demonstrated early in his employment career that he is capable of doing the work and of being a satisfactory employe. He is young and apparently did not have prior experience with industrial discipline. If he has the desire to adopt a more wholesome attitude toward his employment and his supervision, he can have a bright future as a successful workman and the Company will have the further benefit of his training and experience.



NEW PUMPER — Chief Ora Tussey (right) checks out equipment on new fire pumper with firemen George Cooke (left) and George King (center). The new apparatus was placed into service at the GAT Fire Station in October. It has a pumping capacity of 1000 gallons per minute and a 300 gallon water tank.

Award: Mr. J. P. Harding is to be reinstated to his former job with out loss of seniority but without back pay as of the first regular workday on or after Monday, October 8, 1973.

GRIEVANCE II-40-72

Issue: Did the Company violate Article VIII, Section 6(d)(2) when it did not award a posted position in the Process Operator classification to the grievant, who had greater classification seniority, on the ground that he was still in a training category and not fully qualified for such classification?

Statements of Facts and Contentions of the Parties: Under the Operator Training Program an employe in training for Production Process Operator enters the program in Labor Grade 8 and completes 20 weeks of largely classroom instruction, following which he is placed in a 19-week program consisting of specialized classroom and on-the-job training. Upon successfully completing this 39-week training program, the employe is advanced to Production Process Operator, Labor Grade 15. The Union contends that at this point the employe becomes eligible to bid under Section 6(d)(2) of Article VIII to a designated group within the classification. On the other hand, the Company maintains that he does not become eligible until he also completes 26 weeks in the classification and under Appendix D-1 reaches the top of the classification.

Discussion: In interpreting Paragraphs (1) and (2) of Section 6(d) of Article VIII, it must be noted that

no reference is made to training or to any distinction between an in-training phase and a full-operating phase of a classification. Presumably the parties were familiar with the training programs, both in 1957 when the contract language was changed and in more recent negotiations, and thought it unnecessary to make any specific reference thereto. When they adopted and readopted the language of Paragraphs (1) and (2) of Section 6(d), they also must have been familiar with the job specifications for Production Process Operator, with the general supervisory functions of the Atomic Energy Commission over the operation and its insistence upon trained and qualified personnel. With Management's responsibility under the Management Clause (Article IV) to evaluate the qualifications of employes, and with the general principle, often enunciated by arbitrators, that the training of employes is a primary function and responsibility of management, Paragraphs (1) and (2) must be interpreted with all of these considerations in mind in order to ascertain and apply more faithfully the intent of the parties.

The Company states that it gives the full 65-week training program to all Production Process Operators. No discrimination or favoritism within this group has been shown with the admitted exception of Mr. Murray. Completion of the full training program is to the advantage of the affected employes as well as to the Company and the atomic energy program. The fully-trained employe has a greater choice of jobs within the classification, has more overtime opportunities available to him, has greater protection in a reduction in force, can be used more readily on temporary transfers, and with greater knowledge should be a safer operator. It is found that the training phase of the classification at the time in question consisted of the full 65 weeks as determined by the Company.

Award: The grievance is denied. Within the meaning of Paragraph (1) of Section 6(d) of Article VIII, the grievant was not eligible to sign a posting to a group within the Production Process Operator classification until he had completed the full 65-week training program. He is not deemed to be a member of the classification for this purpose until its training phase has been completed.

Poinsettia Ball Set For December 1st

Saturday, December 1, is to be the date for the Poinsettia Ball, sponsored jointly by the Goodyear Women's Club of Portsmouth and the Goodyear Atomic Corporation. The Ball is to be held at the American Legion Veterans Memorial Hall in Portsmouth from 9:00 pm to 1:00 am with the Gary Billups Band providing the music. Tickets will be \$6.00 per couple and will be available from Club members and also on plantsite.

General chairman for the event is Mrs. Bobbie G. Noel and Mrs. Charles Trivisonno is to be her assistant. Other committees appointed by Mrs. Noel are as follows: Mrs. Marvin Bowling and Mrs. Dave Goodman, Ticket Chairmen; Mrs. James Shoemaker and Mrs. Ralph Ward, Prize Chairmen; Mrs. Max Coryell and Mrs. Louis Donini, Decorations Chairmen; Mrs. Thurman J. Harrison, Food Chairman; Mrs. Guy W. Parks, Publicity Chairman; and Mrs. Robert Walters, Goodyear Liaison.

Mrs. Harry Gowdy, Club President, Mr. Gowdy, Mrs. Neville Trimble, President-Elect, and Mr. Trimble are to serve as hosts for the Ball.

Christmas Records To Be Available

For the thirteenth consecutive year, Goodyear is issuing a Christmas album. The 1973 album, entitled "The Many Moods of Christmas," features many familiar artists such as Bing Crosby, Sammy Davis, Jr., Frank Sinatra, Doris Day, Pete Fountain, Pat Boone, and others. The records will be made available to GAT employes through the Public Communication Department with details to be announced in the near future.

In Memoriam

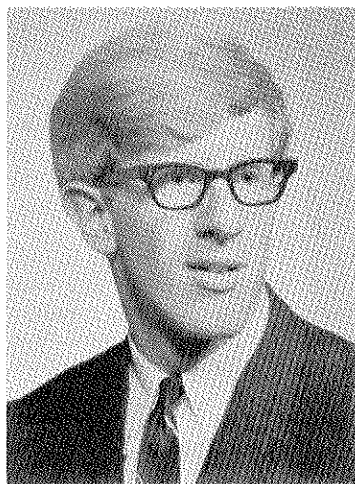
Paul M. Humphries of Waverly passed away at Riverside Methodist Hospital in Columbus on September 26, after an extended illness. A former machinist in D-721, Paul had retired June 30, under "disability retirement" provisions. He is survived by his wife, Mary Evelyn, and a daughter, Mrs. Paul Jean Goggs of Wellston.



QUALITY CONTROL of precise dimensional measurements requires something extra. On the left, Inspector John Rosenzweig checks a Worthington compressor

backplate. On the right, Inspector Wes Handy uses toolmaker's microscope to measure a miniature component.

Appointed



Alan Dennis (Denny) Gabel, 24, son of Mr. and Mrs. Jerome Gabel, has been appointed as the first City Manager of Alpharetta, Georgia.

A graduate of Portsmouth High School, Denny entered University of Cincinnati where he earned a BA in Political Science and also his Masters in Public Administration. He has completed 60 credit hours at Georgia Tech City Planning Department where he worked under a two-year Mellon Trust scholarship.

While in Georgia Tech he was chosen as a delegate to the American Institute of Planners Policy Conference in Washington, D. C.

Jerome Gabel is employed in D-424, Stores.

GAT Representative

Cassandra N. Spradlin, Industrial Hygiene Department, was among representatives of Goodyear plants throughout the country who participated in a week-long occupational health training program in Akron.

The program was conducted at corporate headquarters in cooperation with the National Institute for

Safety Puzzler QUIZ

The answers to the following ten Safety questions are either TRUE or FALSE. CIRCLE your opinion and return the puzzle to the SAFETY DEPARTMENT.

1. If you cut your hand a good thing to do to prevent infection would be to suck the cut. TRUE or FALSE
2. A flammable material or substance is one that will burn. TRUE or FALSE
3. When you're driving in falling snow your lights should be on high beam. TRUE or FALSE
4. It's no longer considered dangerous to use a penny in a fuse box. TRUE or FALSE
5. Without exception, seat belts should be worn anytime a car equipped with them is in motion. TRUE or FALSE
6. If you fall down you should tense your muscles and try to "sit down". TRUE or FALSE
7. The traffic sign shaped like an upside-down triangle means construction ahead. TRUE or FALSE
8. If you burn your finger on a hot skillet, the best thing to do for it would be to immerse it in cold water. TRUE or FALSE
9. On a one way street it's okay to pass on either side of a vehicle. TRUE or FALSE
10. Carrying a dampened sponge in your car will protect you from the dangers of carbon monoxide. TRUE or FALSE

NAME	BADGE	DEPT.	DATE

Cut on dotted line and mail to SAFETY DEPT. X-100 BUILDING

The above Safety Puzzler is the eleventh in a series of quizzes sponsored by your Safety Department. To be eligible, simply complete the puzzle, cut it out, and mail to safety, X-100. Puzzles will be placed in a box; on the first "O" Shift workday in December, three names will be drawn. The first drawn will entitle that employee to \$10, second — \$5, third — \$2.50.

Occupational Safety and Health. The course was entitled "Recognition, Evaluation and Control of Occupational Hazards."

"Increased emphasis is being placed on health aspects of the work environment," said Robert Modrell, corporate industrial hygienist. "It is imperative that every Goodyear plant develop and maintain capabilities for execution of a basic, industrial hygiene program."

CLASSIFIEDS

FOR SALE

1970 furnished, 12' x 52', air-conditioned mobile home with 5' x 7' metal outbuilding. \$4,500. FOR RENT — Large Lake White lot and boat dock. Phone: Waverly 947-5457 after 5:00 p.m.

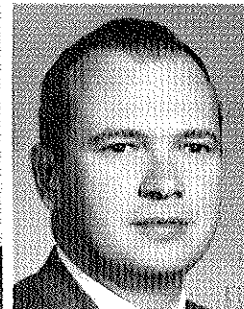
Underwood 300T Adding Machine. \$60. Like new. Phone Waverly 947-5459.

Collie pups. Registered. Sable and White Lassie Type Males \$60, Females \$50. Ready December 1. Phone Portsmouth 456-5265.

People On The Move



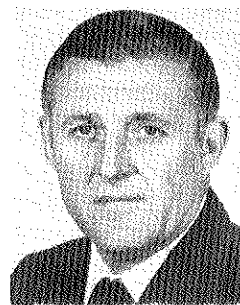
Freshour



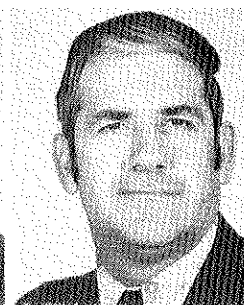
Rice



Tulloh



Creech



Elliott



Fankell

Personnel moves during the month of October were limited to the Plant Engineering and Maintenance Division. Heading the list of changes was the promotion of Dave Freshour to the position of Supervisor, Maintenance. In his new capacity, Dave will direct the activities of Quality Control (D-729). Jim Rice was advanced to the position of Section Head, Quality Control. Max Tulloh was promoted to General Foreman, Maintenance and will be responsible for the activities of Compressor Shops and Miscellaneous Shops, D-724.

In the other changes, three hourly employees were promoted: Arlas Creech and Lamoine Elliott, from Maintenance Mechanic First Class to Foreman, Maintenance (D-724) and Raymond Fankell, from Sheet Metal Mechanic First Class to Foreman, Converter Fabrication and Assembly (D-725).

Tires That Give Warning Coming Challenge — Kovac

Tires that warn the driver when they are overloaded or worn out, tires that are impervious to punctures and tires that will operate at 150-mph on an automated highway are some of the challenges the tire industry must meet, according to Fred J. Kovac, manager of tire reinforcing systems at GT&R. Innovations in tires will be required to meet new transportation demands in the next 25 years, he said.

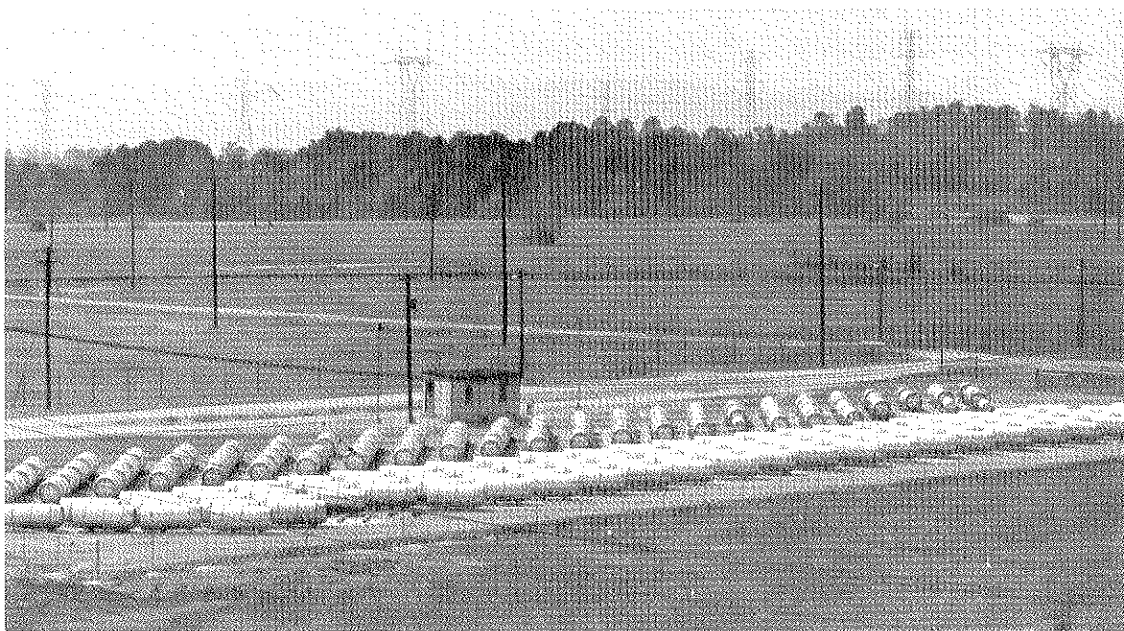
"The free-ranging personal vehicle — an automobile, or something like it — will remain the predominant mode of transportation for the balance of the century," Kovac said, "but the personal vehicle will be supplemented by mass transit.

"In both areas, tires will be required but many innovations will be necessary."

In mass transit, tires can be used for both support and for braking and guidance, he said. Rubber-tired wheels on trains would permit extreme speeds as well as a reduction in noise.

In the area of personal use vehicle systems, Kovac said tire innovations will be made in three general areas — ecology, reliability and performance.

Ecological features for future tires would be a low fuel consumption tire, a noise-free tire and an easily disposable tire, he explained.



TOLL ENRICHMENT is "big business" for the AEC's gaseous diffusion plants. Since the toll enrichment program was begun in 1969, \$1 billion in enriching services have been provided by the diffusion plants for nuclear power plants in 23 states and 10 foreign countries. The photo-

graph above shows storage cylinders at the Portsmouth Gaseous Diffusion Plant containing over \$100 million in enriched uranium awaiting shipment to seven nuclear reactors in Japan.

Return Requested

Goodyear Atomic Corporation
P. O. Box 628
Piketon, Ohio 45661

PIKETON, OHIO
BULK RATE
U. S. Postage
PAID
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