

The WINGFOOT CLAN

A Subsidiary of

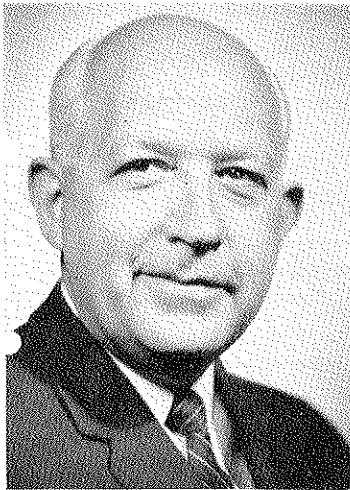
Goodyear Atomic Corporation

The Goodyear Tire & Rubber Company

Volume 16

Piketon, Ohio March 1969

Number 3



A. J. Gracia



C. R. Milone

A. J. Gracia Retires; C. R. Milone To Succeed As Research Head

The retirement of Albert J. Gracia, vice-president of research at T&R, has been announced, bringing to an end a 40-year career in scientific accomplishment that included the establishment of Goodyear Atomic Corporation as a subsidiary.

Gracia will retire officially March 31, although he ended active service with the company Feb. 7. He is succeeded as the company's research chief by Dr. C. R. Milone, director of research and general products development and a 30-year Goodyear veteran.

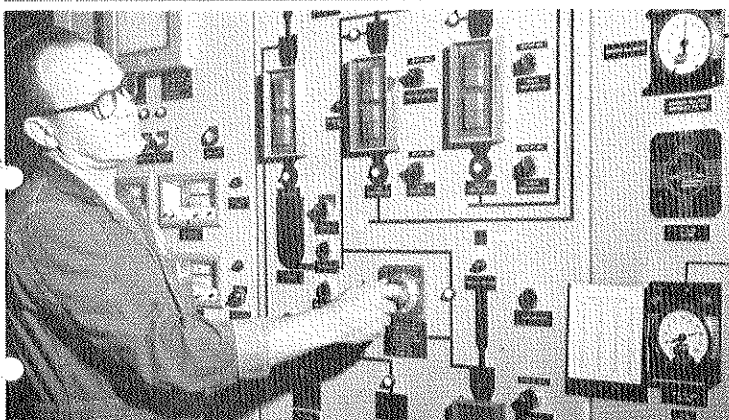
Gracia's career has been closely associated with the development of synthetic rubber and atomic energy. During his 40 years with the firm, he has made outstanding contributions not only to science, the company and his profession, but to the state and nation in educational, religious and social service endeavors.

He was graduated from Massachusetts Institute of Technology in 1928 with a degree in chemical engineering. He joined Goodyear as a research trainee. He was promoted to chemical engineer in 1930 and was made manager of chemical engineering in 1942. He eventually held other managerial positions, in-

cluding that of assistant manager of research and development. He also attended Harvard Business School's Advanced Management Training Program.

Gracia was named general manager of GAT in 1952 during construction and start up. He returned to GT&R in Jan., 1956 and was named vice president of research in 1964.

Dr. Milone joined the company in 1939 following graduation from M.I.T. with a doctorate in organic chemistry. He held various positions in Akron before being named superintendent of the development laboratory at Goodyear Atomic in 1952. He became manager of the plant's technical division in 1957 and in 1960 assumed a dual post as deputy general manager. Early in 1967 he returned to Akron to take the post of general products development director.



CONVEYING solid compounds to the oxide conversion facility is carried out by means of a pneumatic system. Through the pneumatic system control board H. E. (Jack) Withrow is able to regulate feed rates and maintain surveillance of the system. More about the men and facilities in Chemical Operations may be seen in center section.

Employee Cost Reduction Ideas Receive AEC Recognition

Efficiency in government is everybody's business, and economy in government saves everybody's money. It was with this in mind that Goodyear Atomic in cooperation with the Atomic Energy Commission developed their Cost Reduction Plan.

To find good ideas for more efficient operation, the AEC developed a monthly cost reduction booklet called "Cost Reduction Abstracts." The booklet is designed to circulate unique and original cost reduction ideas for use in other AEC installations.

"Cost Reduction Abstracts" has published 11 actions submitted by GAT personnel. These 11 ideas were selected from thousands of suggestions submitted by AEC contractors throughout the nation. Below is a brief resume of the suggestions as they appeared in AEC's "Cost Reduction Abstract" publication, along with the Goodyear employee who originated the suggestion.

POLAROID PHOTOGRAPHY IN METALLURGY

K. L. Ritchie, Metallurgy

Polaroid photography is being used for the metallographic studies required to evaluate test samples from programs designed to develop improved construction materials. The use of Polaroid eliminates dark room processing of film. A savings of 0.7 man-months of technicians' time per month is being realized from this procedure.

REWORKING AXIAL FLOW COMPRESSORS

E. C. Gearhart, Machine Shop

Damaged bearing surfaces on the shafts of axial flow compressors are being reworked without removing the rotor assemblies from the shafts, eliminating the cost of disassembly and reassembly. After removing the complete rotor from the compressor assembly, the bearing surfaces are sprayed with metal or welded as required, then machined to correct dimensions. Reworking ten rotor assemblies in this manner has resulted in a savings of 145 manhours.

DECONTAMINATE BY MICRO-BEAD GLASS BLASTING

M. D. Wickline, Chemical Operations

An abrasive blast unit was modified to use fine micro-beads. Bead blasting removes surface contamination from parts which previously resisted decontamination without extensive hand cleaning. The glass beads do not mar metal parts. Glass

blasting eliminated the previous long hours of hand labor to clean out grooves and recessed places in seal parts, which are now cleaned very rapidly by glass blasting. The glass blaster is also being used to clean parts which are not contaminated, but represent a difficult hand cleaning problem.

CENTRIFUGAL COMPRESSOR PARTS REPAIRED

M. C. Tulloh, Compressor Shop

In the past when centrifugal compressor impellers and inlets were found to have damaged vanes or were undersized, the parts were discarded. Recently, Goodyear Atomic determined that these parts could be properly repaired by machining the damaged area to a good base, rebuilding to slightly oversize with aluminum welds and re-machining to the proper dimensions. The use of parts repaired by this technique in lieu of purchasing new parts has resulted in annual savings of approximately \$40,000.

ALUMINUM COLD TRAPS CHEAPER THAN COPPER

R. E. Shepherd, Plant Engineering, & W. A. Hockenheimer, Utilities Maint.

Two new cold traps were added at the Goodyear Atomic Corporation plant as part of the upgrading of its oxide conversion facility. Fabricating the traps from aluminum in GAT

shops rather than procuring conventional copper cold traps brought a savings of \$69,000. The internal components were fabricated from aluminum channel, cut to six-inch lengths, and welded into six-inch aluminum pipe sections. Final assembly was made by welding the six-inch pipe sections together.

RESIN COATED CONDENSER HEADS COST LESS

A. L. Cardenas, Chemistry

The cast iron heads on the Freon condensers graphitized after several years' exposure to recirculating cooling water. Graphitization proceeded until the head gaskets no longer formed a seal along the webs and short circuiting of the cooling water resulted.

The condenser heads were removed, cleaned, sand blasted, resin coated, and the webs rebuilt with resin to provide the original gasket surface. By rebuilding the heads with resin in lieu of purchasing new heads, a net savings of \$550 per head was realized.

REUSE OF RESIN

R. E. Childers, Utilities Operations

Ion exchange resin exposed to water containing appreciable quantities of iron and manganese suffers loss of exchange capacity and must be either chemically cleaned or replaced.

(Continued on Page 3)

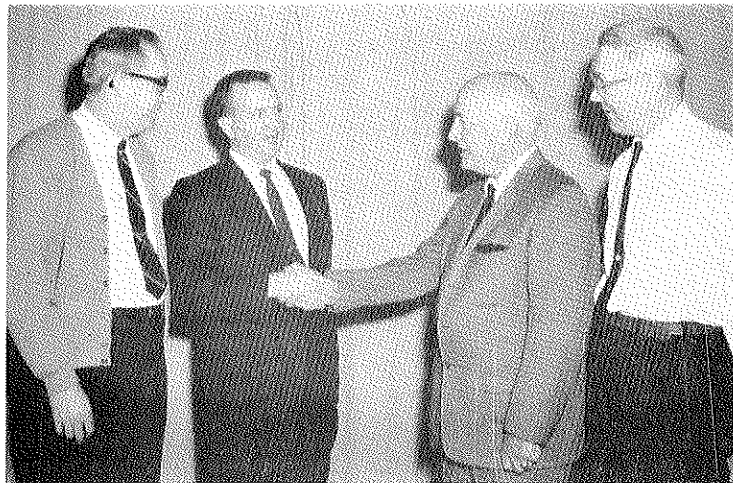


COST REDUCTION INNOVATIONS submitted by GAT employees were considered original and effective enough to receive recognition in the AEC publication "Cost Reduction Abstracts." Originators of the published cost reduction ideas are seated (l) Bob Childers, D-852, and Arturo Cardenas D-521. Standing (l to r) Everett Gearhart, D-721, Bill Hockenheimer, D-732, Bob Shepherd, D-761, Dale Wickline, D-858, Norm Christopher, D-554, Max Tulloh, D-720, Ken Ritchie, D-523, and Jim Daily, D-411.

SAFETY CORNER

DON'T DISCOVER SAFETY BY ACCIDENT was the employees' choice as the annual winner in GAT's safety slogan contest. Submitted by Howard Cutright, security, the winning slogan was chosen as the most outstanding from twelve monthly contest winners in the safety department "You Are The Judge" contest. Cutright's entry polled 218 votes out of the 786 total ballots cast.

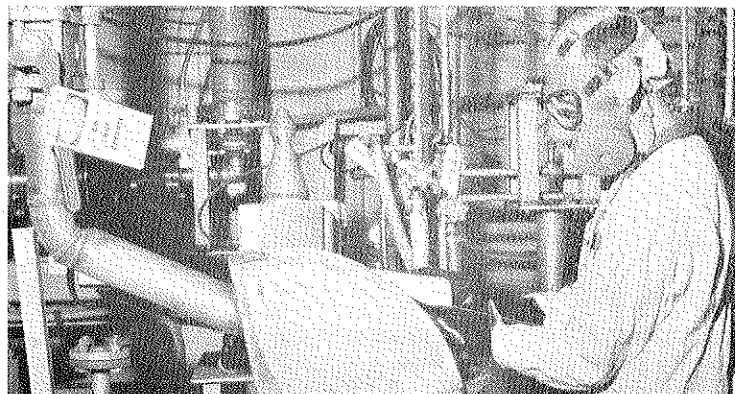
A total of 649 slogans were received by the 1968 Safety Slogan Committee for selection of the monthly winners. Members of the committee were: Genie Gundlach (100 division); John Gedson (200 division); Ray McNaughton (300 division); Jim Daily (400 division); Art Romero (500 division); Marcella O'Brien (700 division); and Joe Hale (800 division).



SLOGAN WINNER Howard Cutright (second left), Security, receives congratulations from GAT General Manager, G. H. Reynolds, for submitting the winning slogan in GAT annual safety slogan contest. Looking on is Ralph Channel (l) Superintendent, Security and Fire Protection and Les Oylor, safety. "Cutty" received a \$100 merchandise award for his winning effort.

1968 MONTHLY SLOGAN WINNERS

- P. Q. Snyder D-552 — *You're No Dope If You're Addicted To Safety*
 D. A. Detillion D-423 — *Safety Attention, Accident Prevention*
 H. M. Cutright D-110 — *Don't Discover Safety By Accident*
 R. M. Weaver D-858 — *Make All Time Safety Time*
 N. F. Reiter D-521 — *Accidents Know No Season — Work And Play With Reason*
 M. W. Powell D-552 — *You Can't Go Wrong With Safety Along*
 M. W. Powell D-552 — *If You Must Gamble — Bet On Safety*
 R. C. Kramer D-224 — *Don't Act Smart — Be Smart*
 D. A. Ludwick D-222 — *The Careless Worker: Hears No Warning — Sees No Hazard — Speaks No Safety*
 M. W. Powell D-552 — *Don't Be A "So-So" — Be A "GO-GO" With Safety*
 W. D. Hehl D-858 — *The Season Is Here For Ice And Snow — Be Extra Cautious When On The Go*
 J. G. Ewing D-852 — *Safety Is A Blank Check Worth What You Put In It*



DESOLVING URANIUM COMPOUNDS R. L. (Mac) McCoy empties uranium crystals into a tank dissolver where they are converted to oxides and subsequently uranium hexafluoride (UF₆).

Chemical Operations Employees Performing Unique Services

One of the primary concerns of every atomic energy facility is the proper handling and cleaning of items that are contaminated with radioactive material. At GAT this important function is filled by the employees in Chemical Operations.

Equipment to be decontaminated is separated into two main groups, large and small parts. In small part decontamination, thousands of various and sundry items are made "safe" by washing and rinsing them in chemical solutions.

Decontaminating converters, piping, valves, and other large pieces of equipment presents a different problem. Using a procedure resembling a car wash, the large equipment is put in a tunnel where it undergoes a series of chemical baths, sprays, and rinses to remove radioactive material.

Included in Chemical Operations are laundry and protective equipment facilities. Each year some 200 tons of laundry are washed and 2,400 articles of wearing apparel repaired. Gas masks, welders masks, respirators and rubberized body suits are among the thousands of pieces of equipment processed in the protective equipment facility. Routine inspections are made on all protective equipment to insure their safe operation.

It is common knowledge that enriched

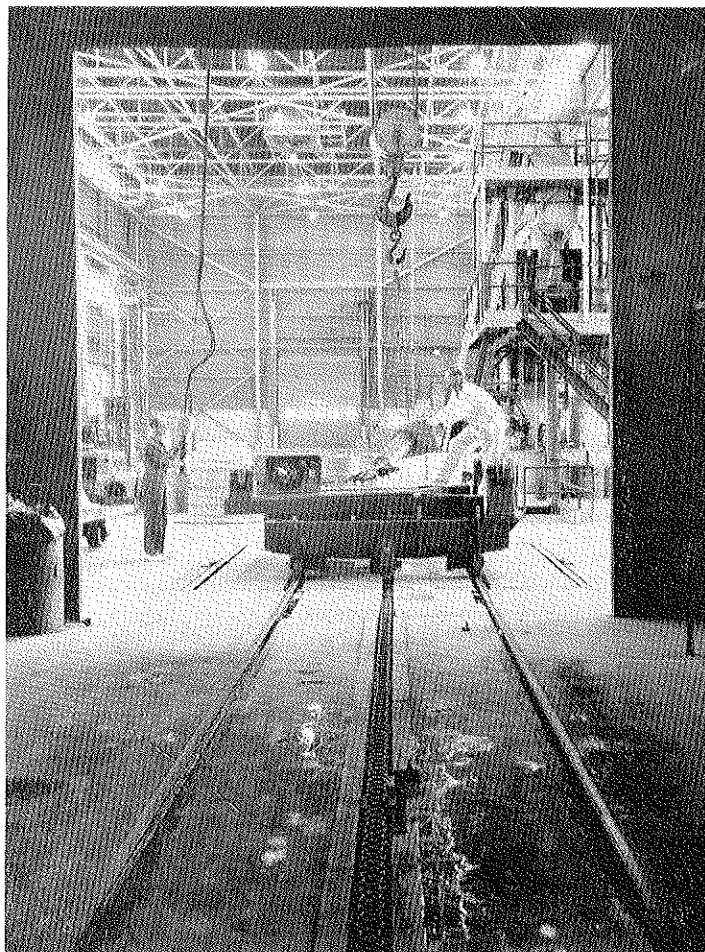
uranium is more valuable than gold, it is economical to recover even minute quantities.

Chemical Operations has developed several methods of recovering the precious uranium. One unique facility called the Converter was constructed recently to convert enriched uranium oxide to uranium fluoride.

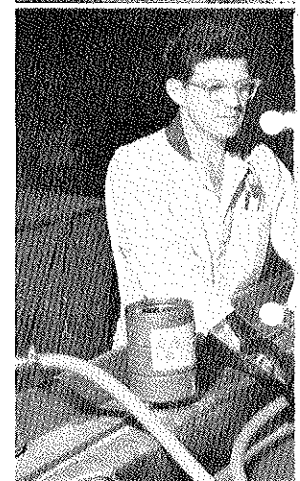
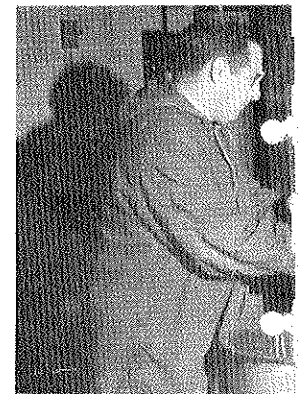
During the first year of operation the oxide converter exceeded all expectations. It has proven to be more than satisfactory in operating cost and financial return. Now is the facility used to fluorinate GAT's reduced oxide, but it is being utilized to fluorinate material returned to GAT from outside licensees and AEC contractors from over the world.

Among the other miscellaneous services performed in Chemical Operations are sampling of solutions, cleaning of contaminated areas, maintenance of hot salvage handling contaminated scrap materials, chemical cleaning and operation of an aluminum smelter.

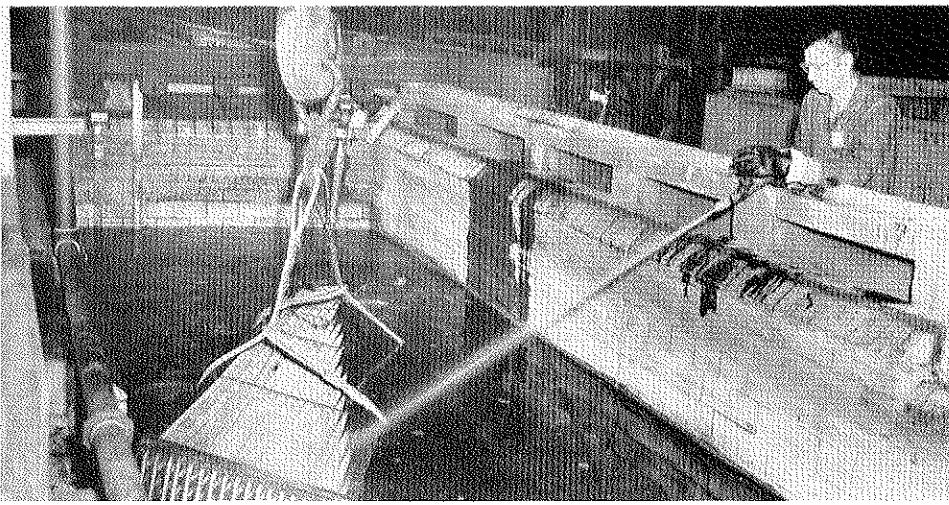
It is obvious that employees in Chemical Operations play an important role in maintaining our safety standards, as well as providing a valuable savings in recovery of uranium.



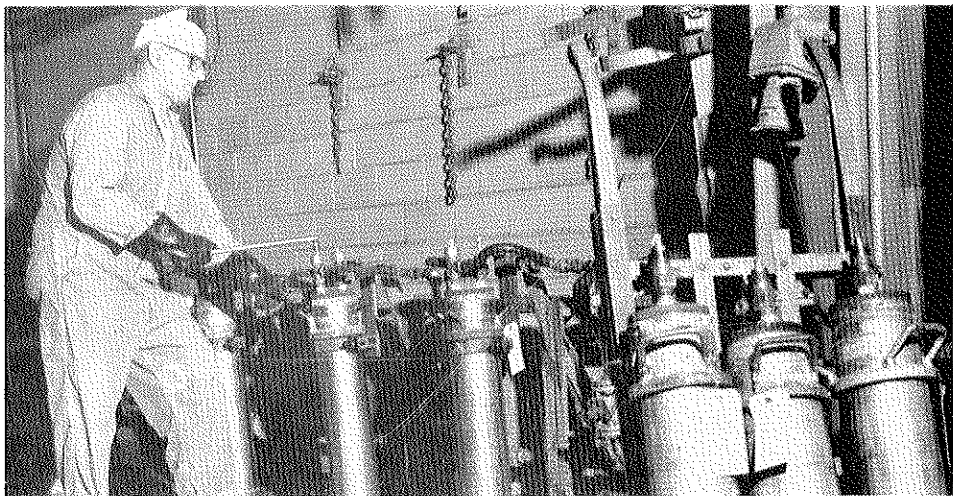
WASHED OUT. John Mercer (l) and Dave Maple unload equipment from the large parts decontamination tunnel. A series of chemical washes and rinses resembling a car wash, frees the equipment from contaminants and prepares it for maintenance.



THE NAME OF THE GAT (upper left) charges incinerator uranium is recovered by processing facility. Thousands of miscellaneous items are regularly processed. Welders masks are checked and filters on respirators and protective suits



DON'T GO NEAR THE WATER. Acid baths as large as swimming pools are used in cleaning facilities to remove corrosion and oxidation. The refrigeration coil being dipped by Jim Scott is only one of hundreds of items cleaned before being repaired or painted.



PRECIOUS URANIUM is removed from product cylinders by flushing them with solutions from the small decontamination unit. Carl Bauer is recovering small quantities of uranium by valving 5-inch product cylinders into the system. Once flushed, the cylinders will be returned for shipment of new product.



S. LED — W. A. (Art) Welton decontaminated burnables. The uranium is recovered through the uranium recovery facilities of plantsite protective equipment Ralston (upper right). Welded; gas masks, assault masks, used for protection of GAT em-

ployees. By rinsing out shipping containers with an acid solution, Ivory Sowards (lower left) is able to recover any remaining particles of uranium compounds. The uranium is removed by processing the acid solution through the uranium recovery facility. (Lower Right) Brothers Cliff (1) and John Ruby team up to remove clean laundry from the huge dryers. Each year the laundry facilities wash approximately 200 tons of clothing and repair some 2400 pieces of wearing apparel.

Goodyear Split Declared By Board Of Directors

On February 11 the Board of Directors of The Goodyear Tire & Rubber Company declared a two-for-one split of the shares of the company's common stock, subject only to shareholders approval of an increase in the number of authorized shares and the elimination of pre-emptive rights.

Shareholders will be asked at the annual meeting in Akron April 7, 1969, to increase the number of common shares authorized from the present 50 million to a total of 100 million.

When effective, the two-for-one split will be made to shareholders of record at the close of business April 15, 1969, by the issuance of one additional share of common stock for each share held.

The board also announced its intention at its May meeting to declare an initial quarterly dividend of $2\frac{1}{4}$ ¢ per share on the split shares, equivalent to an annual rate of 85¢ per share, when the split becomes effective. The new annual rate would be equivalent to \$1.70 per share on the existing shares or an increase of 20¢ per share over the current annual rate of \$1.50.

Goodyear last split its common stock three-for-one on November 16, 1959.

GT&R also announced the sales of The Goodyear Tire & Rubber Company increased 10.9 per cent to a

record \$2,925,744,887 in 1968, while net income rose 16.7 per cent to a record \$148,262,340. Last year was the seventh successive year that sales have achieved record levels, and the sixth that earnings have done so.

Per share earnings of \$4.12 in 1968 compare with those of \$3.54 in 1967.

Russell DeYoung, chairman and chief executive officer, and Victor Holt, Jr., president, noted in their report to shareholders, "The new all-time records for both sales and net income established in 1968 reflected our company's continuing ability to capitalize on the increased demand for tires and other products our company makes for public, industrial and governmental consumption."

The two men predicted that "demand for our products will grow at a faster pace than the economy of the Free World," and they promised to "take full advantage of these opportunities as they develop, and to maintain Goodyear's position of leadership in our industry."

Cost Reductions Published

(Continued from Page 1)

The make-up water treatment plant for boiler feed make-up consisted of ion exchange units operating in both the sodium and hydrogen cycles. Chemical cleaning of the fouled resin in the sodium cycle units was time consuming and generally unsatisfactory. Resin in the hydrogen cycle units remained clean and at full capacity. To meet the attrition losses from the hydrogen unit, the fouled resin from the sodium units was used and the new resin added to the sodium units. Over a period of time after numerous regenerations with sulfuric acid the fouled resin in the hydrogen cycle units was renovated and returned to full capacity.

In another instance where Cation resin in an auxiliary softener became fouled, this material, too, was transferred to the hydrogen ion exchange units and renovated. This procedure has reduced the cost of replacement ion exchange material by fifty per cent or more.

REDUCED FREON ESCAPE A. L. Cardenas, Chemistry

The leakage of freon from a heat exchanger in a gaseous diffusion plant was reduced to an acceptable level by applying a resin coating to the tube sheet. Other measures had proved unsuccessful and the only recourse would have been to replace the tube bundle at a minimum cost of \$7,000 plus labor. It is estimated that the resin coating technique can be used to salvage two additional tube bundles of the same type in the next 18 months.

LUBE OIL FILTER BASKETS REINFORCED Production, Engineering & Maintenance Personnel

In order to prevent rupture of lube oil filter baskets in unit lube oil filters, the Maintenance Department of Goodyear Atomic Corporation reinforced the existing baskets by installing perforated stainless steel sleeves around the cylindrical baskets. A total of 152 baskets were improved in this manner saving \$10,787 over the purchase of new baskets.

MULTI-USE FORGING DESIGNED J. R. Daily, Purchasing

Five different forgings were formerly required to fabricate pilot rings for Fairchild and Allis-Chalmers Centrifugal Compressors used in a gaseous diffusion plant at Piketon, Ohio. A design was developed for a universal forging to be used for all five rings. This reduced the dies and tooling required from five to one at a savings of \$9,524. The use of a universal forging also made it possible to substantially increase the quantity of forgings purchased to take advantage of a price break and save an additional \$1,721.

MULTI-USE OF CHART RECORDER PAPER

N. F. Christopher, Mass Spectrometry

The recorder chart paper used on mass spectrometers is being used four times instead of once. The first usage is on the high-precision instruments and the next three usages are on the production control instruments saving \$1,200 annually.

Women's World



GOODYEAR WOMEN'S CLUB OFFICERS - Goodyear Women's organizations recently selected officers to head the year's activities. **JACKSON WOMEN'S CLUB** (top) named: (l to r) Mrs. B. J. Bond, Goodyear Aerospace, president; Mrs. Bill Clements (D-711), vice-pres.; Mrs. W. M. Mitchell, Goodyear Aerospace, secretary; Mrs. Alva Hale (D-554), treas. **PORTSMOUTH WOMEN'S CLUB**; (l to r) Mrs. Ed Paul (D-102), vice-pres.; Mrs. Len Savage (D-852), treas.; Mrs. Arturo Cardenas (D-521), president; and Mrs. Lou Donini (D-732), secretary.

Members of Goodyear Women's Club of Portsmouth have voted to continue to support The Happy Hearts School for Mentally Retarded Children as its charity for the 1969 club year. During 1968, the club held a children's show, a benefit bridge party, a rummage sale and, with cooperation from Goodyear Atomic's Recreation Department, two dances with all profits going to Happy Hearts.

During the summer of 1968, the Scioto County Council for the Mentally Retarded sponsored three weeks of day camp which was open to any mentally retarded youth of the area. Goodyear Women's Club gave \$400 which provided transportation daily to and from the day camp. The club donated \$250 to purchase materials and supplies for the children at Happy Hearts School for the '68-'69 school year.

In late fall of 1968, Happy Hearts School moved into new quarters in a vacant Portsmouth City school. As part of the redecorating, Goodyear Women's Club funds were used to paint the gym. This cost over a thousand dollars. An open-house was held at the renovated school on January 5, 1969. Goodyear Women's Club gave \$800 to buy new equipment (chairs, tables, desks, etc.) for the school. With previous purchases of equipment, Goodyear Women's Club has provided all furniture in the school. A plaque has been placed in the school's front hall recognizing Goodyear Women's Club's contribution of all of the school's equipment.

The Club very much appreciates the support it receives from Goodyear Atomic and from the many employees who help them throughout the year by buying candy, raffle tickets, dance tickets, etc. They also appreciate the guidance and financial support they receive from the company on the co-sponsored dances. These all contribute greatly to the Club's success.

Goodyear Women's Club of Portsmouth invites all eligible women from their area to join. Membership is open to all women employees, and wives, mothers, sisters and daughters of present, retired and deceased Goodyear Atomic employees. Meetings are held at 8 p.m. on the second Monday of each month at the Shawnee Restaurant in Portsmouth. Anyone interested in becoming a member is urged to call Mrs. Mary Ann Williams, Membership Chairman, at Portsmouth, tele. no. 574-2928, or Mrs. Janet Noel, Goodyear Liaison, on plantsite, extension 2262.

Annual Report Goes Home

Goodyear's best sales year ever and the story behind it will be highlighted in the Annual Report For Employees — 1968, which will be mailed to the homes of employees within the next couple weeks.

Some changes have been made in the content of the 1968 report, largely because of suggestions made by employees who responded to a readership survey taken on last year's magazine.

The 1968 issue will spotlight Goodyear's growth, its financial status, an interview with the chairman of the board, and additional stories and photographs of employees on and off the job.

Produced by the public relations department in Akron with the assistance of personnel at this plant, the report will be mailed locally. Employees who do not receive the publication by March 31 should contact Community Relations.

Newlyweds

Miss Mary Lou Boling, credit union, and Mr. John R. Gedeon, D-224, were married February 1 at the Second Presbyterian Church in Portsmouth.

Miss Brenda S. Howell (D-224) and Mr. Michael J. Thomas pledged marriage vows February 14, 1969.

New Arrivals

Mr. & Mrs. Donald Reeves, (D-724), son, Cory A.

Mr. & Mrs. Robert O. Mick, (D-531), son, Eric Owen.

Mr. & Mrs. William J. Lemmon, Jr., (D-858), son, Lee Eric.

Mr. & Mrs. Charles H. Weghorst, (D-851), daughter, Jane Ann.

Mr. & Mrs. R. K. Mocherman, D-222, a son, Douglas John.

Mr. & Mrs. L. N. Coburn, D-113, a daughter, Sonja Jean.

CALENDAR of Events

COMPANY CHAMPIONSHIP ROLLOFF (BOWLING)
Shawnee Lanes
Chillicothe, March 8
Women's 10:30 A. M.
Men's 2:00 P. M.

ACTIVITIES NIGHT AND DUPLICATE BRIDGE
Every Monday Night
Waverly North Elementary

In Sympathy

James Jordan of Portsmouth, Ohio, died January 11 at Mercy Hospital after an extended illness. His wife, Joyce, is employed in payroll.

Airman 1.c Eric L. Shepherd died as a result of an automobile accident. His father, J. E. Shepherd, is employed in Materials.

Equal Employment Policies Reviewed By Seaborg Letter

G. H. Reynolds, General Manager, received the following letter from Glenn T. Seaborg, Chairman of the Atomic Energy Commission. The letter serves as a reminder of our responsibilities for positive action in the area of Equal Employment Opportunities.

The many industrial and educational organizations which operate the AEC's plants and laboratories are meeting some of the most difficult scientific and production challenges that can be imagined; they push into the frontiers of basic science; they solve engineering problems with dedication and enthusiasm; they harness knowledge and skill to move advanced and exotic ideas into effective programs and hardware. Their beneficial contributions to the fundamental sciences and to the nation's defense cannot be measured.

Yet, even as we acknowledge these management successes, we must recognize and meet a new challenge that has arisen and which faces all Americans — affirmatively providing equal opportunity for employment and advancement without regard to race, religion, color or national origin. The management abilities which are being so abundantly and skillfully applied to science and engineering must include within their focus "affirmative action" programs to help meet these important social goals. For these reasons I am writing to top management of AEC's principal installations to let you know of the strong Commission support for affirmative action programs now underway and to encourage additional management emphasis on expanding such programs.

"Affirmative action" is a concept that requires more than passive implementation of a policy of nondiscrimination in employment. Affirmative action necessitates imaginative, sustained efforts to devise recruitment, training, and advancement programs which will help disadvantaged Americans of all races, colors, and creeds both to contribute to our society and to achieve their fair share of America's bounty.

Affirmative action encompasses many things: making known the management commitment to equal job opportunity at all levels of the organization; positive communication of job information to the disadvantaged, the underprivileged, the unqualified or underqualified victim of racial bias; aggressive recruiting; on-the-job training; restructuring jobs to make maximum use of available skills; removal of discriminatory restrictions on employment and promotions; as well as other action, tailored to fit specific situations and circumstances.

Experience shows that affirmative action programs are successful in direct proportion to the amount and depth of top-level attention that is given to them. Delegation of full responsibility for affirmative action to subordinates who have only a limited role in the management of an organization has proved not to be adequate.

Accordingly, I want you to know that my fellow Commissioners and I appreciate your personal leadership in continuing to develop and implement affirmative action programs that will enable your organization to contribute to the fullest possible extent to the solution of our great social problems. I urge that you assign your principal staff members to review their equal employment opportunity programs and to buttress them with new or renewed efforts.

Let me add that I am aware of the affirmative action program which Goodyear Atomic Corporation has developed. This program represents a useful starting point and, if supplemented by the establishment of well defined goals, its vigorous implementation should lead to a significant improvement in minority representation of your Company's workforce.

CLASSIFIEDS

FOR SALE

1965 Dodge Polara, 4 door sedan. Power brakes, power steering, factory air conditioning, radio, heater, and white side walls. Inherited third car — must sell. Best offer over \$1095. Call Piketon 289-2331, ext. 2623.

Smith and Wesson K-22 Match Target Revolver (.22 Cal. L. Rifle) with Match Target Hammer, Match Target Trigger, Match Target Hand Grips, and Micrometer Sight. This is an extremely accurate handgun. Call Waverly 947-2925.

1964 "Wayfarer" fold-up camper; good condition. Extras — canopy, heater, canvas bunks, cabinets, and spare tire. \$400. Phone 286-1760 Jackson.

Return Requested

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

PIKETON, OHIO
BULK RATE
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