

# Staley NEWS

Published monthly, exclusively for employees of the A. E. Staley Manufacturing Co.

M. N. Armentrout

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A. E. Staley Manufacturing Co., Decatur, Ill.—Return Requested

## 1964 Figures In; Outlook for '65 Bright



YEAR-END—Chairman A. E. Staley, Jr. addresses some 200 Staley foremen and supervisors at annual year-end conference.

### Big 4th Quarter, Advance Continues Into New Year

The Company recorded net income of \$4.27 million on sales of \$178 million for the 12 months ended Sept. 30, a year of many difficulties.

Sales were off 3.8 percent and net income was down more than \$1.23 million from the year before.

Both sales and profit surged sharply upward in the fourth quarter, but not enough to offset the adverse effects of three quarters of the poorest soybean conditions in history and severe price competition in both corn and consumer products.

The soybean business, rocked worldwide by the vegetable oil debacle through the first nine months, showed encouraging signs from July on, ending the old year and starting the new one with somewhat better margins.

Our soybean plants in Decatur and Painesville, after an up-and-down three quarters, finished the year in full production.

On the corn processing side, an all-around good volume year became the best yet on a wave of unprecedented syrup demand in the fourth quarter, but severe price competition depressed profits margins.

Here's a brief rundown on our year, which will be covered in detail in the 1964 Annual Report mailed to employees next month. Additional coverage of fiscal 1964 on Pages 4 and 5.

**Industrial Products**—new high in total sales, several new products from Research gained solid acceptance, among them "Sta-Lok", "Stasize" and "Stacoloid" starches for the paper industry, a half-dozen new food starches, and new entries in our "Koldex" line.

**Consumer Products**—"Sta-Flo" spray sales continue to climb, "S n o - B o l" registers healthy increase; intense price competition, entries of new fabric softeners, a new vegetable oil, with multi-million-dollar fanfare, made things tough for us. Sta-Flo and Sta-Puf brand names continue strong, however.

**Feed Marketing**—Soybean difficulties hold volume down considerably; "Sweetlix" block line advances.

**U B S Division**—Record year in domestic sales, and earnings; overall volume reflects channeling of Canadian business to new plant there; industrial adhesives pace advance of line; new floor polish emulsion offers new dimension in industrial waxes.

**Overseas**—fast growth pace continues, with income up 4½ times in past three years, new plants in Spain, Canada.

#### CHECK THIS

Active and retired employees who pay their insurance premiums by check or money order should in the future make them payable to "Staley Employee's Benefit Association".

Checks or money orders can be accepted in no other way.

### Staley Syrup Refinery Gets 'Bright New Look'

Installation of new easy-maintenance aluminum sashed windows has given a new face to the towering 10 Bldg. Syrup Refinery, our tallest plant building and a familiar landmark to pass-

ing motorists on Eldorado St.

A two-year project to replace old wooden-sashed windows with modern new ones designed for easy care is now in the final stages of completion.

Windows in most of the 14-story building's more than 200 openings have been replaced by the new, smaller and more practical varieties.

The new windows are encased in a heavy-duty aluminum that improves the building's appearance and is as virtually maintenance-free and corrosion-resistant as any material available.

Plastered up was the elevator shaft and other openings where windows could not be used because of equipment close by. In some areas, like near enzyme conversion tanks, heat loss will be thwarted by an absence of windows that weren't used anyway.

Aluminum in recent years has become the universal window casing. Aluminum on the new Staley windows is about twice as thick as the material used for windows in residences.

The Syrup Refinery has been a focal point in expansion-modernization activity during the past two years, as demand continues to mount for corn sweeteners.

It is one of the key areas in the current program, being geared to feed liquid for conversion to crystalline dextrose at the new production center next spring in addition to supplying expanded syrup demand.



NEW LOOK—Construction engineer Jack Grant points out new aluminum-sashed windows on west section of 10 Bldg. Two-year replacement project is in final stages of completion.

### United Appeal Tops '63 Mark

Going into its final few days, the 1964 Staley United Fund drive had already topped last year's effort and was less than \$1,500 away from its increased goal.

The 1964 collection topped the \$44,000 mark at last report to go more than \$500 ahead of 1963's collection.

Percent participation, at 81.5, also edged slightly ahead of last year.

Returns from a final windup effort are expected to boost percent participation above the eight-out-of-ten who have already given, and go over the top of the \$45,583 goal for the year.

The community campaign also moved ahead of previous-year totals, both in number of givers and total gifts, as it too entered a final push toward a big goal of \$551,960.

Here's the way things stood here, comparing the fifth 1964-effort report against final figures from a year ago.

	1964	1963
Management	\$32,712	\$32,417
Salaried	2,873	2,924
Hourly	8,494	8,196
Total	\$44,079	\$43,537

# Big Promotions Month For Staley Employees

Twenty-two Staley folks moved up in promotions this month.

**Frank Janes** has been promoted from sales supervisor to products manager in the Special Products Dept. A 10-year man here, he started as a management trainee and was chief consignment clerk in Control for a year before moving up to Industrial Sales in 1956, where he started in Chemicals, worked five years in the Cleveland territory, then returned to Decatur in 1963 as sales supervisor in Chemicals. He is a graduate of Knox College, Galesburg, Ill.

**John F. Jones** has been advanced from shift foreman in Engineering Research to shift foreman at the Oil Refinery. He started in 1946 on the Extra Board, then for the next five years moved up in various posts at the Syrup Refinery before advancing to Development Engineer's Helper in 1951. He was promoted to shift foreman in Engineering Research in 1957.

**J. Pat Phillips** has been promoted from sales trainee to sales representative at the Industrial Sales San Francisco Office. He had worked in the Seattle, Wash. territory since joining the Company in 1961. He is an Oregon State U. graduate in business administration and food technology.

**Daniel L. Comp** has been promoted from combustion engineer in Utilities & Specialty Feeds to Grocery Products Order Programmer in Inventory Planning & Control. He joined the Company in 1959 on the Extra Board and served two years as process service clerk in Manufacturing before moving up to combustion engineer in 1962.

Other promotions:

**Carl Bagley**, from the hourly roll to 20 Bldg. record clerk.

**Ray Best, Jr.**, from the hourly roll to shift foreman, Engineering Research.

**William Budds**, from chief clerk, Cost Accounting, to plant cost accountant, Plant Cost Accounting.

**Rosemary Curtis**, from "temporary" to Division Secretary, Feed Marketing.

**Jackie Dillman**, from messenger, Printing & Mailing to bank reconciliation and statement clerk, Corporate Accounting.

**Donald Falk**, from expense and grain accounting clerk to senior clerk, Corporate Accounting.

**June Frymire**, from junior clerk-typist, Grain, to Department Secretary, Industrial & Paper Sales.

**Frances Herron**, from soybean statistical clerk, Cost Accounting, to chief clerk, Refined Oils.

**Gerald Hill**, from the hourly roll to messenger, Printing & Mailing.

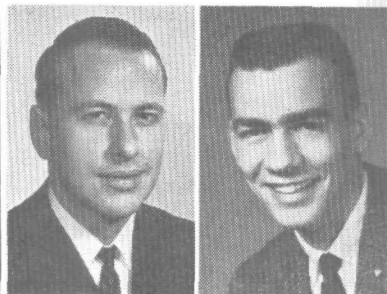
**Lois Kauffman**, from senior clerk to soybean statistical clerk, Cost Accounting.

**James Keyes**, from utility lab man, Research Staff & Services to junior technician, Chemical Research.

**Dennis Lappen**, from utility lab man, Research Staff & Ser-



Janes Jones



Phillips Comp

vices to reclamation clerk, Store-room & Reclamation.

**Henrietta Lookabaugh**, from expense & grain accounting clerk to bank reconciliation & statement clerk, Corporate Accounting.

**Robert McCourt**, from utility technician, Research Staff & Services, to combustion engineer, Utilities.

**Marjorie Miller**, from senior billing clerk to Division Secretary, Overseas.

**William Oldweiler**, from mfg. supplies inventory clerk, Production Control, to inspection relief clerk, Process & Methods Engineering.

**Theodore Sederwall**, from physical inventory clerk, Production, to senior billing clerk, Traffic.

**Linda Weakly**, from key punch operator to senior computer operator, Process & Methods Engineering.



Schmitt

**Charles W. Schmitt, Sr.**, rigger leadman and senior citizen of the Yards Dept., where he's completing his 40th year.

Others marking November service anniversaries:

### 30 Years

James Bean, 111 Bldg., Nov. 5  
Harold Gentry, 11 Bldg., Nov. 19

Ralph Henderson, Pipe Shop, Nov. 20

Robert Henninger, 48-49 Bldg., Nov. 26

George Raney, Electric Shop, Nov. 21

### 25 Years

Hilbert Bell, Control Lab., Nov. 18

Dale Fisher, Tin Shop, Nov. 18

Harold Fuson, Tin Shop, Nov. 24

Orval Hale, Plant Protection, Nov. 6

Clifford Mast, Tin Shop, Nov. 14

Lee Owens, Control Lab, Nov. 19

Charles Wilber, Tin Shop, Nov. 7

### 15 Years

Darrell King, 101 Bldg., Nov. 14

### 10 Years

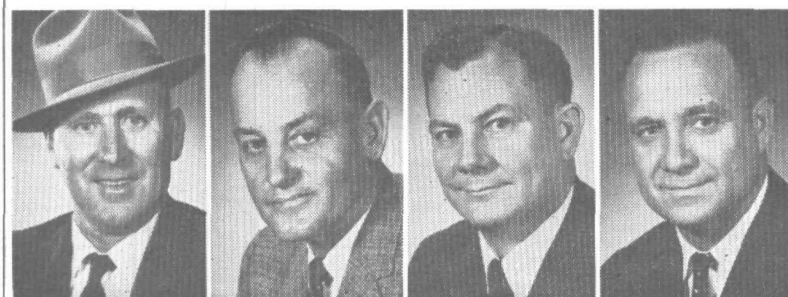
Frank Janes, Products Mgr., Spec. Prod., Nov. 22



Bean Gentry Henderson Henninger



Raney Bell Fisher Fuson



Hale Mast Owens Wilber

Stanley Miller, Painesville, Nov. 6

### 5 Years

Walter Battles, Engineering, Nov. 16

Lauren Incarnato, 18 Bldg., Nov. 25

Hugh O'Neill, Applications Rsch., Nov. 9

Lloyd Riggs, 17 Bldg., Nov. 30

Donald Sigmon, 5-10 Bldg., Nov. 30

Lloyd Wilber, 17 Bldg., Nov. 25

### Staley Welcomes . . .

**James Ferrill**, utility lab man, Research.

**Marian Jones**, key punch operator, Data Processing.

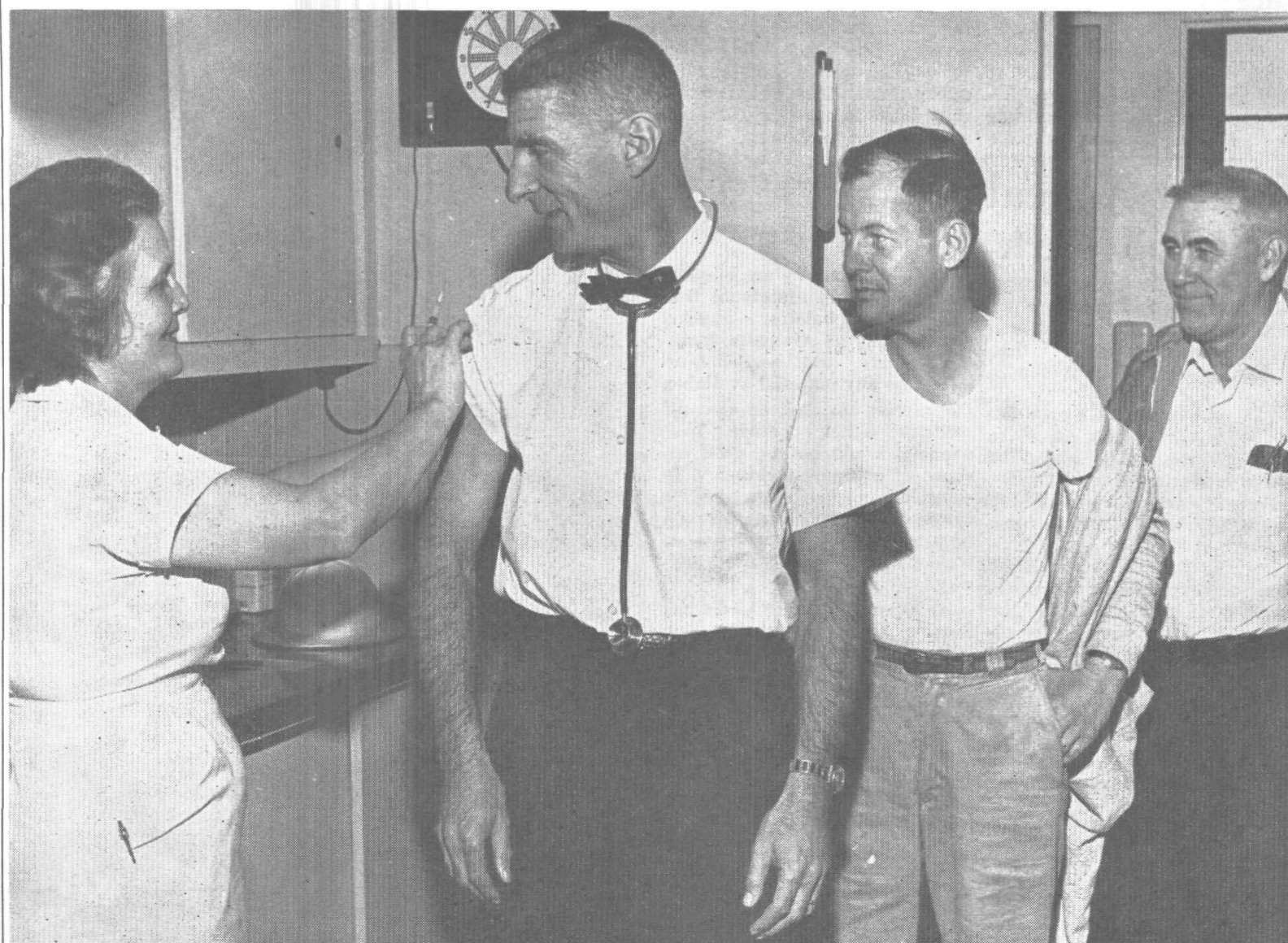
**Jerry Perkins**, utility lab man, Research.

**William Sparks**, messenger, Printing & Mailing.

**Bobby Jean Stadler**, clerk-stenographer, Industrial Sales—San Francisco.

**Donald Weaver**, senior programmer, Corp. Information Systems.

**Mary White**, clerk-typist, Industrial Sales—San Francisco.



**WHO WILL NURSE OUR DOCTOR?**—Medical Director E. E. Goldberg "takes his own medicine" during recently-completed round one in the Company-sponsored employee flu and cold prevention program. Doing the honors is nurse Mary Scherer. Glee-fully waiting their turn for the needle are George Jewell and Joe Anderson, right. Some 833 Staley employees received inoculations during the week. Round two of the disease prevention program is tentatively set for sometime in January, 1965.

# 'Daisy' Wins Customer Praise in First Trip

"Glucosi-Daisy is, indeed, a beauty and exemplifies the trend toward efficient transportation and handling of volume liquid food products."

These are the words of **John Hilstrom**, Northwest Division Manager for California Packing Corp., as he observed unloading of Staley liquid corn sweeteners from the "Daisy" upon its arrival at CPC's Vancouver, Wash. plant.

The "Daisy", world's first all-stainless steel corn syrup tank car, produced for Staley by North American Car Corp., thus completed its first big trip in bloomin' fine fashion.

Its maiden journey was to carry corn sweeteners for use in California Packing's famed "Del Monte" brand high grade pears.

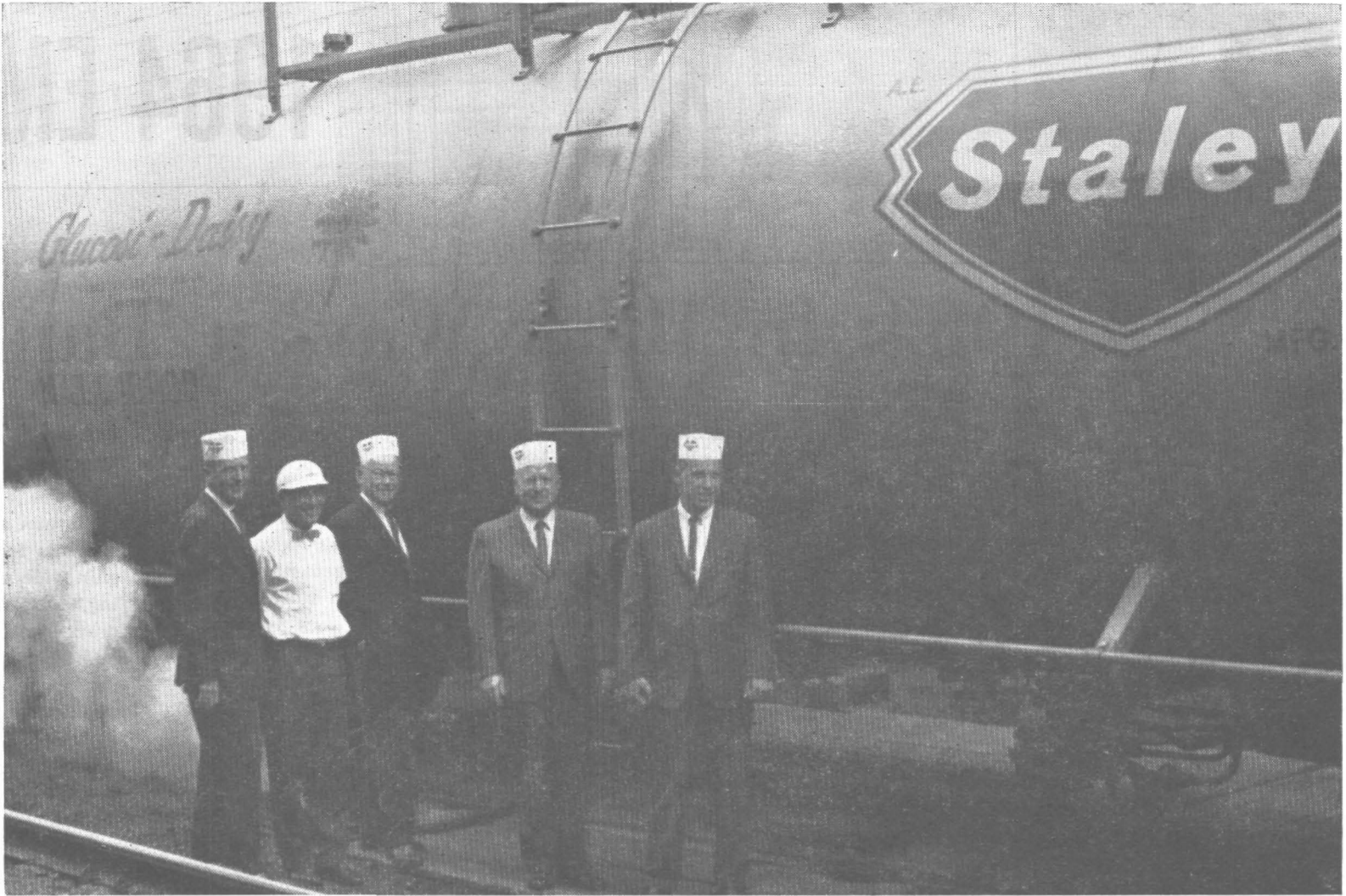
The trip was arranged by our West Coast office in cooperation with CPC's Northwest Division officials.

Staley representatives **Pat Phillips** and **Dick Heyl** supervised heating and unloading of the giant stainless steel rail-carrier as it arrived in Vancouver.

The big two-compartment car has a tank of nearly half-inch-thick stainless steel, with all stainless fittings, external coils and outer jacket, and requires no painting or lining.

It is hailed by the manufacturer as "in every respect as virtually maintenance free as a car can be".

The Company is trying it in customer service to all parts of the country, in all seasons and under all conditions in a five-year in-service evaluation.



**DAISY-IN-FULL-BLOOM**—Staley representatives and officials of the California Packing Corp. are on hand to welcome "Glucosi-Daisy", first stainless steel corn syrup tank car, as it arrives at CPC's Vancouver, Wash. plant to complete its first cross-country trip in a five-year in-service evaluation. The Daisy hauled liquid corn sweeteners for use in "Del Monte" brand high grade pears. Observing the stainless steel giant here are, from left, Staley Technical Supervisor **Dick Heyl**, **Virgil Scott**, Superintendent of CPC's Vancouver Plant; **W. L. McNichols**, CPC's Northwest Division Purchasing Agent; **John Hilstrom**, Northwest Division Manager for CPC; and Staley Industrial Sales Representative **Pat Phillips**.

## Safety in Spotlight for Staley Foremen



**SAFE SUBJECTS**—Here's the way it looks in two of the current Safety Training Courses—discussion sessions run by foremen for foremen, and in the best interests of plant-wide safety. Pictured above, listening to some words of wisdom from discussion leader **Howard Brumley**, are (clockwise around table) **Bob Bilyeu**,

**Joe White**, **Elmer Luallen**, **Bud Morrison**, **Bill Burchard**, **Jim Warnick**, **Charles Lefringhouse**, **Herb Beilsmith**, **Carl Dongowski** and **Irvin Cox**. Pictured below are, from left, **Gustav Grojohn**, **Stan Martin**, **Glenn Niles**, **Bub Campbell**, group lead **Dale Elliott**, **Merle Blair**, **Koran Capshaw**, and **Darwin Spittler**.

Staley process foremen are taking part in a new Safety Training Course offered through the Safety and Training Depts.

Three sections are now underway with some 35 process foremen enrolled. Twenty-nine others completed the opening round of sessions that began in September, and two classes are slated to start upon completion of those now underway.

Participation in the course is voluntary. Classes meet an hour a week for six weeks. Leading the discussion-type sessions are Staley foremen.

The program was designed jointly by the Staley Safety and Training Depts., in cooperation with Manufacturing. It is part of a continuing campaign to reduce injuries here.

Subject matter is taken from a series of booklets on plant safety published by the National Safety Council.

Typical subjects taken up in the meetings are the foreman's role in plant safety and the worker's responsibilities, frequent accident causes and ways to eliminate them, why people act unsafely, safety attitudes and feelings contributing to safety lapses, and what can be done to improve safety.

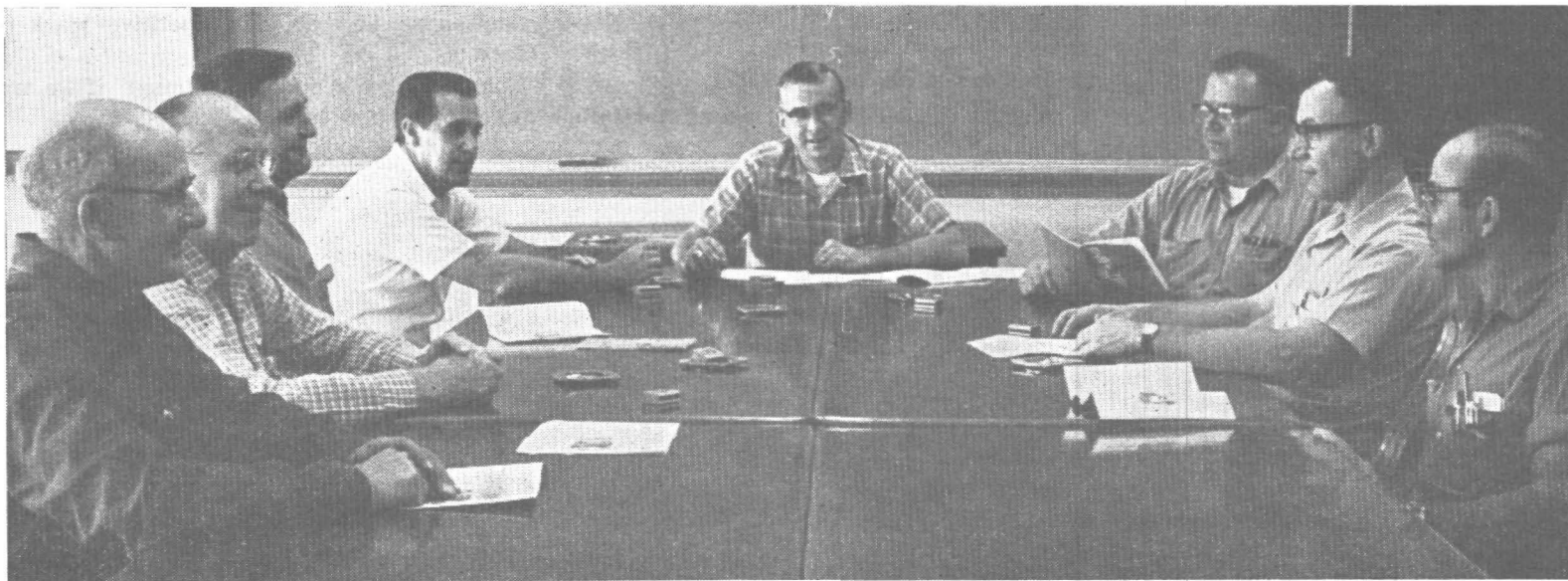
### Staley Gals to Chicago

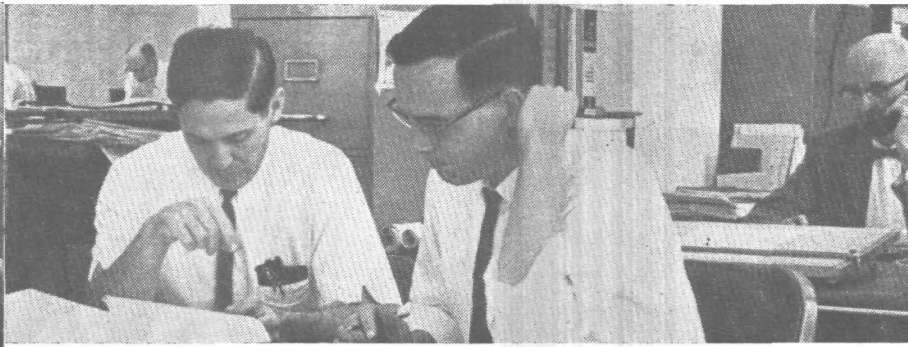
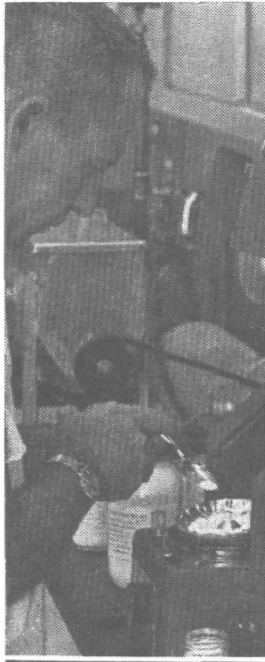
The Staley Women's Club is planning an outing to Chicago for Saturday, Dec. 5.

The gals are scheduled to depart at 6 a.m. from the Staley parking lot on a chartered bus.

**Beverly Blakeman**, 2-E, has additional details.

Highlight of the annual Women's Club Thanksgiving Dinner Nov. 19 was a talk on how to make Christmas decorations, by **Mrs. Dorothy Collins**, order process manager in sales order service.





# 1964 EMPLOYEES

*People, Processes . . . Plans, Products . . .*

## 1964: In Many Ways a 'Banner Year'

The financial record won't show 1964 as one of our best years, but this is only part of the Staley story for the 12 months ended Sept. 30.

True, it was a year of higher costs and lower selling prices, year of the worst soybean margins ever, and the year of our longest strike.

In many ways, however, 1964 was a banner year—building the Company's competitive strength on many fronts, in people, products, plans and processes.

**It was a year of construction.** Our largest expansion program ever moved into high gear. Buildings were torn up all along the corn refining cycle; new processes were put on stream.

**It was a year for learning.** Some 1,100 Staley folks took part in training courses of all descriptions to better prepare them for bigger jobs ahead.

**It was the year we started on a Total Information System,** most advanced of all computer-powered management methods, beyond anything yet to be fully implemented anywhere. Staley employees carried out a comprehensive nine-month feasibility survey that led to the decision to go into the Company-wide system that will give us new and better answers to old problems.

**It was a year of better distribution** and improving delivery service to customers. Distribution made great strides in organizing a nationwide system to get Staley products to

customers faster and more efficiently. New Distribution Centers sprung up in 14 locations to serve major industrial and consumer markets.

**It was a year of several important developments from Research.** "Staramic" starches gain wide acceptance in the food, paper, mining, textile and other industries. New, improved "Mira-Cleer" starch helped bakers to make better pies than ever. Three new starch lines were marketed for the paper industry, two new fluid lecithins and a new spray-dried hydrolyzed vegetable protein came on the scene for use in foods. A string of other Research developments improved existing industrial and consumer products, while others reached advanced stages of testing.

**It was a year of expansion, both here and abroad.** Acquisition of Vico Products Co., Chicago, gave the Company a complete line of industrial food flavor enhancers. Staley (Canada) Ltd. moved into full production. A new joint venture soybean plant in Spain became the latest step in making Staley a truly international processing name.

Partially because of the unusually vigorous activity, and partially because of the unusual problems, it was the year of outstanding accomplishment for a team of Staley employees described by Chairman A. E. Staley, Jr. as "the best the Company has ever had".

## Staley Employees Commended For 'Tough Job Well Done'

Staley employees all along the line won praise for a tough job well done in 1964 at the year-end management meeting early this month.

Perhaps most attention was focused on the Manufacturing team, which battled countless construction obstacles to come up with record production levels.

Chairman A. E. Staley, Jr. reviewed the many difficulties and accomplishments of 1964, and cited Staley people as the prime element in his optimism for a better 1965

Corn Division Vice President L. E. Doxsie expressed his pride in the production unit for achieving record output in a number of industrial lines, overcoming the odds to supply the goods sold in time for delivery when they were needed.

General Superintendent Nat Kessler commended members of the production team for carrying on a successful year-long cost reduction program, learning "repair-on-the-run" because production couldn't be stopped for maintenance, and learning to handle new equipment and break production records though hampered by construction activity everywhere.

"The list of names is far too long to enumerate", Kessler said, "the year's production accomplishments came as a result of teamwork, with each unit fighting side by side to get the job done".

The Staley General Superintendent looked

to "an enormous job ahead", in running the expanded corn plant and starting up dextrose production next year, attaining peak levels from the start to supply greater product demand, producing at peak quality, and at the most economical level to meet competition.

### Outlook 1965 . . .

## Busy Year, Tough One Ahead

All signs point to a busy year—perhaps the busiest yet—for Staley folks in 1965.

Indications are that there'll be more business than ever out there, but that it'll be harder than ever to get and keep.

Getting it and keeping it—at a profit—is a job that'll take the very best every employee has to offer.

**By early next spring, our current expansion program will be complete, giving us the world's largest and most efficient corn refining plant.**

Crystalline dextrose will be added to our product line, opening big new markets in the food and other industries.

Operator training will smooth the startup of new processes coming on stream and boost performance from the beginning.

**And as the far-reaching new Total Infor-**

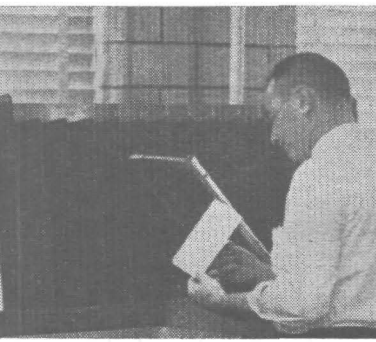
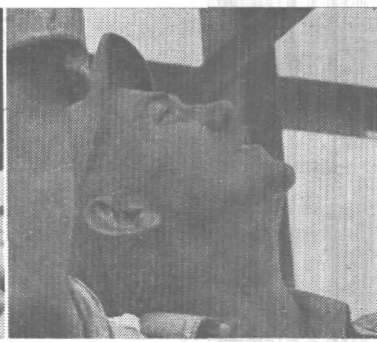
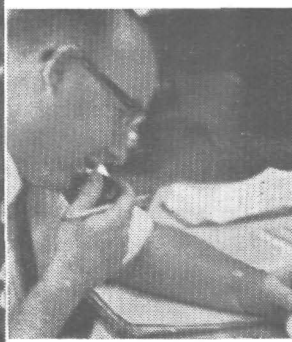
**mation System moves across more areas of the Company, we'll begin to see the benefits of this most-advanced concept for running a business**

A string of recent developments from Research will be moving into their first full year, and a list of 21 projects selected jointly with Marketing for 1965 completion will be moving ahead.

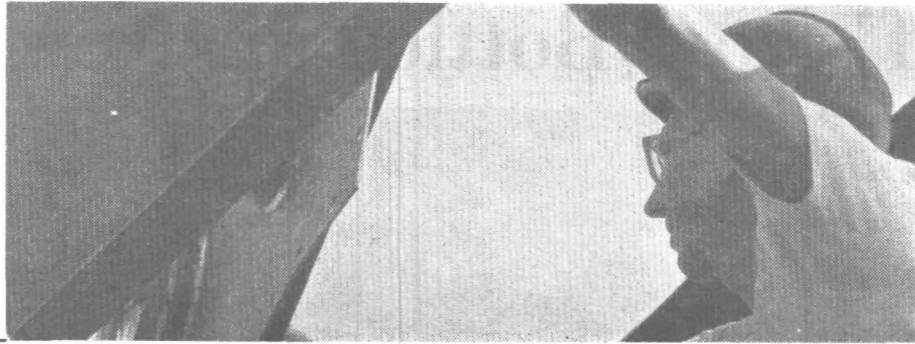
**There'll be emphasis on new acquisitions and overseas growth. The search for new additions to expand our product line and sales at home and abroad will take on a new intensity.**

Throughout the Company, emphasis will be on quality, which we cannot afford to compromise in today's competitive marketplace.

And on cost reduction, a "must" if we are to compete successfully.

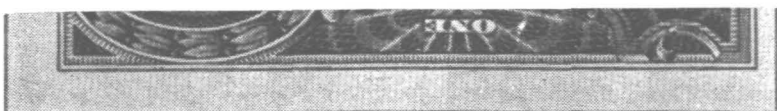


# ANNUAL REPORT



## The Staley Dollar

Here is the Staley Dollar for 1964, and where it went. How we spent what we took in is the story of our year in a nutshell.



### 56 1/2c Raw Materials

This went mainly to farmers as payment for their corn and soybeans. Much of the money was paid out in the Decatur and Central Illinois area.

### 14 1/2c Supplies & Services

Multiplied by 178 million this is what it cost for the countless things we use in our daily business of making and marketing Staley products; containers, coal and chemicals are major items.

### 12 1/2c Employee Pay and Benefits

This is our share. Multiply it 178 million times and you get nearly \$25 million. That's what the Company paid us in wages and fringe benefits for our efforts during the year. It is one of the fastest growing chunks in our sales dollar. But then we're pretty important.

### 10c Transportation

This is what it cost to bring in raw materials and supplies, and to move Staley products out to the thousands of supermarkets and to industrial customers in the 60 basic industries we serve.

### 2 1/4c Depreciation

This represents what we wore out in buildings and machinery to get the job done this year. It's kind of a retirement schedule accountants figure for buildings and equipment, for when we have to replace them.

### 2c Taxes

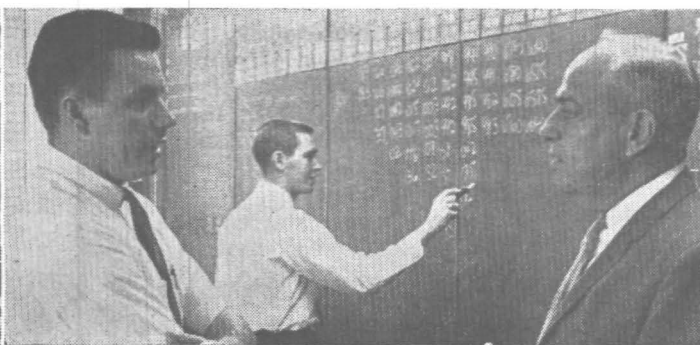
This is what the Company paid to Uncle Sam and his numerous cousins the State of Illinois, Macon County, City of Decatur and other taxing bodies. We see this money, or some of it at least, working for us in new schools, roads and other government services. Simple arithmetic runs this item up to more than \$3.5 million a year we pay in taxes. Big item!

### 1 3/4c Dividends

This is what we pay out to our stockholders. They get less than Government, about a 4.3 percent return. They invest in Staley stock because they hope for growth and a better return as the Company grows. Making it grow is part of our job.

### 1/2c Reinvestments

This is what we plow back into the business. This year it comes out to about \$900,000. Hardly enough to cover \$10 million in construction expenditures this year, so we had to finance most of the expansion program out of working capital, built up with retained earnings over the years.



# 'Sta-Puf' Now Bottled in New Design Plastic Here

Two new lines for packaging "Sta-Puf" in new-design plastic bottles are now nearing full production levels at 17 Bldg., in time for the annual fall upswing in housewife-demand for the original and still nation's-favorite fabric softener rinse.

A complicated transition from glass to the lighter, unbreakable plastic was completed and trial-runs started about a month ago.

Since that time, Staley engineering and production employees have conducted shake-down runs to discover and correct mechanical kinks in the operation and get used to the new ways.

Both quart and half-gallon lines had to be completely rebuilt for plastic, in a project involving new fillers, cappers, labellers and a change from vacuum to gravity filling.

Less rigid than glass, plastic is susceptible to deforming when squeezed by machinery. This meant switching from vacuum filling of bottles to gravity flow from the third floor mixes to the first floor packaging lines.

A difference in filling speed between the two methods is handled by changing methods and the number of tubes.

Labelling the plastic bottles also presents problems different from glass.

New-design plastic bottles for "Sta-Puf" were introduced about a year ago. All packaging centers have been converting over since that time.

Coordinating the overall package design phase of the program is Gene Tiernan. Neal McDonald and Chris Greanias engineered the Decatur revisions and are helping with the startup.

Demand for "Sta-Puf" tradi-



NEW CURVES—Bottling of "Sta-Puf" fabric softener in new plastic bottles shifted into high gear at 17 Bldg. this month.

Don McKinney, left, back to camera, and Herman Hauser attend to the streamlined bottling line.

tionally swings up sharply in the fall, as housewives get back into the routine of school-clothes washings along with blankets and other heavy-duty fabrics.

## Industrial Sales Opens New Los Angeles Office



Craig

President L. E. Doxsie.

Doxsie said the new office was being established to provide expanded service to meet rapidly increasing demand for Staley products in Southern California, the nation's fastest growing industrial area.

Craig, a veteran of 18 years in the Staley Industrial Sales organization, had been serving Southern California markets as senior sales representative out of our San Francisco Regional Office since 1954.

He joined the Company in 1941 as a messenger, and served a year as clerk at the Painesville plant before leaving for a four-year stint in the U.S. Marine Corps.

Upon discharge from the Marines in 1946, he joined In-

dustrial Sales as a clerk, advanced to assistant division supervisor a year later, then in 1948 moved to the field as senior representative in the Washington-Oregon territory.

West Coast markets for Staley products — particularly corn sweeteners — have increased tremendously in recent years, rising to rival Chicago as a high-demand center.

The new Los Angeles Branch will operate under West Coast Regional Manager Ray Harroun

## 'Galloping Ghost' At Foremen's Club

"Red" Grange, considered by many the greatest football player of all time, was the guest speaker at this month's Staley Foremen's Club meeting.

The "galloping ghost" of University of Illinois and Chicago Bears fame relived some colorful memories of great moments on the gridiron with the Staley foremen.

Grange was a three-year All-American at the University of Illinois. Feats like touchdown runs of 92, 70, 57 and 43 yards in six carries in the first five minutes of play in a 1924 Illinois-Michigan game made "number 77" a living legend.

After his professional football career, Grange starred in two Hollywood football movies (one his life), and was a TV football announcer.

He is now a "Good Will Ambassador" for Falstaff Brewing Co.

## Qual. Cont. Group Honors Staley Co.

The Staley Company was saluted by the American Society of Quality Control at an area meeting Nov. 12 in Decatur.

Staley plant superintendent W. R. Schwandt discussed the Company's products and processes with the group.

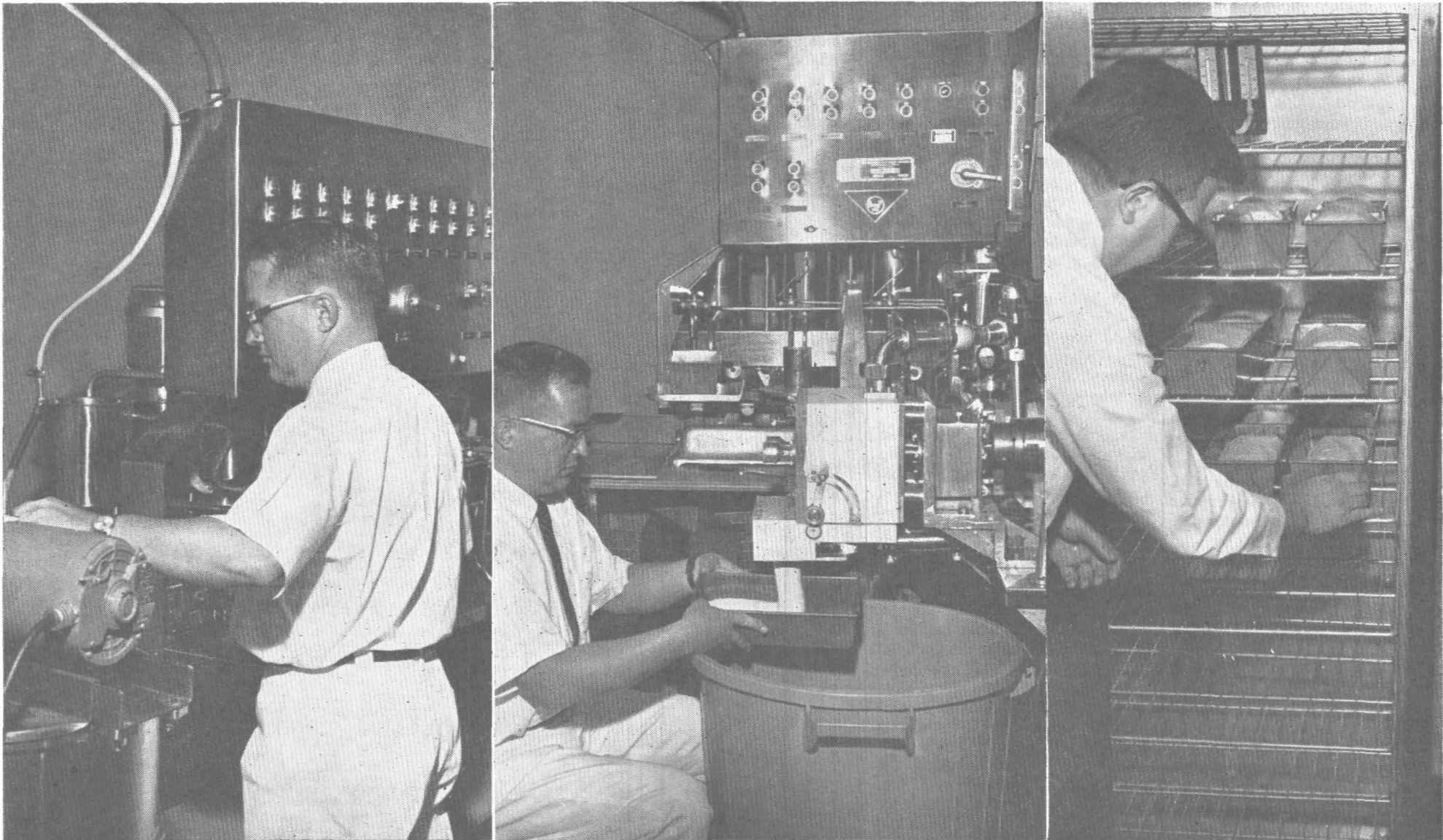


STA-PUF—The Original Fabric Softener... has *always* kept clothes whiter, softer and more absorbent than *any* other fabric softener

Sta-Puf® Fabric Softener does everything you would expect a softener to do... and does it better! Feel how much softer it makes diapers, towels, and other fluffables. See how white clothes, sheets, and linens dry to dazzling-whiteness... and almost wrinkle free. You'll discover many things need little or no ironing at all. So, try time-proven Sta-Puf and you'll never settle for anything less... buy Sta-Puf Fabric Softener.



Keeps fabrics whiter, softer, easier to iron



George Bookwalter starts baking system, left, receives automatically mixed dough, center, Frank Del Valle places dough in proof cabinet, right.

'No Holes' Bread . . .

# 'Latest Thing in Baking' In Research Laboratory

A scale-model continuous system—the latest thing in baking, and an unsung hero to homemakers everywhere — is now in operation in the Staley Research baking laboratory.

The miniature system is an exact duplication of 30-times-larger continuous mix equipment that is rapidly replacing old batch-type manual methods in the commercial baking industry.

Use of the new process is viewed as a major factor in bakers' ability to maintain stable bread prices even though costs of raw materials, distribution and labor have increased substantially in recent years.

**Our scale-model system is being used for research explorations into various blends of corn sweeteners and their introduction in different proportions at various stages of the continuous mix.**

From their experiments, our baking technologists hope to learn how Staley corn sweeteners can be best used to serve bakers' changing needs.

Also, by gaining an intimate working knowledge of the new continuous equipment, our technicians will be in position to productively assist bakers who are engineering changeover to the more-modern methods.

**Emphasis in the current round of experiments is on use of crystalline dextrose, in preparation for our introduction of the pure sugar from corn next spring.**

It has been shown that in continuous systems, the higher the dextrose content, the faster the dough will rise, resulting in a faster turnout of finished products.

Largely on this premise, "StaleyDex", a 95 percent dextrose equivalent liquid corn sweetener, has won wide acceptance in the baking industry.

"Sweetose" C and F, long favorites in batch-type processing, are also used in the new continuous systems.

About 25 percent of the nation's commercial white bread supply is now produced by continuous methods.

**The new equipment turns out bread and buns of perfect uniformity and consistency in about one-third the production space needed for a manual operation.**

The totally automatic mixing process starts with introduction of a "brew"—a combination of yeast, water, salt, milk and corn sweeteners.

This solution is fermented in a stainless steel kettle, then pumped into a holding tank.

The "brew" is then pumped to an incorporator, where it is oxidized together with more corn sweetener, water and shortening.

Then flour is added to the other ingredients in the incorporator, after which the combined liquid is moved to a pre-mix pump.

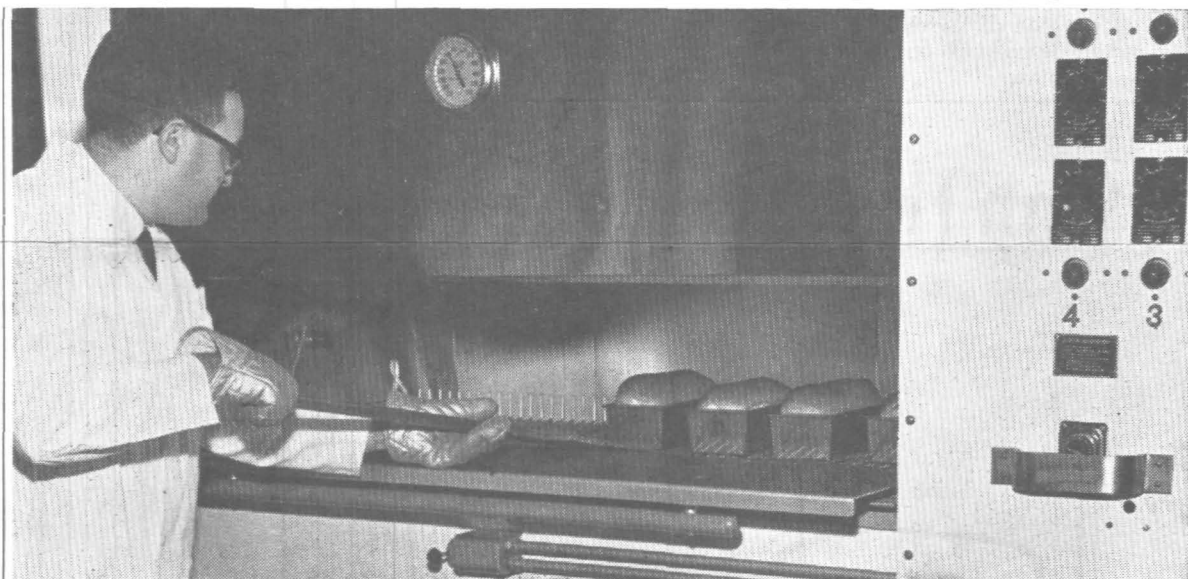
The pre-mixed dough then moves to a "developer" for the final mix.

**Seconds later, ready-to-rise dough streams out of the developer in a continuous flow. This is the first exposure of the new dough to air.**

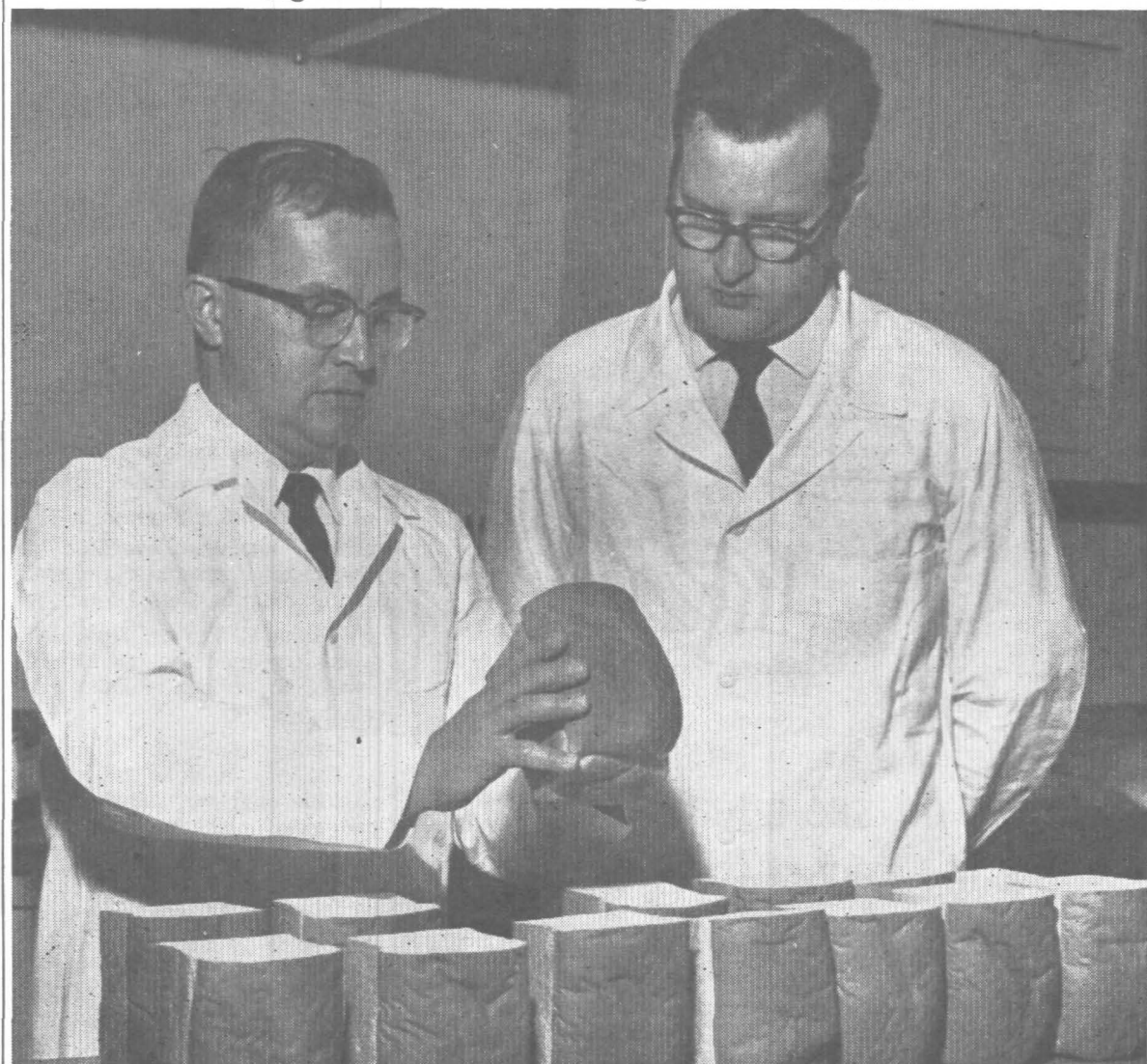
The rise-ready dough is then weighed, placed in loaf tins, then put in a proof cabinet, where it remains for an hour at 108-degree temperatures and 90 percent humidity for perfect rising.

Then it's onto a special revolving oven, where loaves are baked at 460 degrees for 18 minutes.

The result: You can smell it throughout the second floor of the Research Center—delicious, golden bread—some say its even better than "Mom" used to make—and "look Ma, no holes!"



Eighteen minutes after entering oven: finished bread.



Bookwalter and Del Valle inspect their product.

# Employee Ideas Reduce Accident Hazard

Safety ideas from two Staley employees, submitted separately but aimed at the same target, are expected to greatly reduce an accident hazard that has troubled our Mechanical Shops for years.

Without each other's knowledge, Millwright **Carl Minton** and Assistant Foreman **Harry Augustine** came up with simple-and-effective answers to a safety problem involving the lock cord on overhead monorails used to transport heavy machinery around the shops.

Potential accident causes are in failing to set the lock cord, which prevents machinery from running off the end of the rail, and in the cord snapping under pressure when mistaken for the pull cord.

Carl dealt with reminding workers to use the lock cord and also to distinguish it from the pull cord by suggesting that it be coated in bright "caution" yellow, and Harry's suggestion of water ski tow line to replace a fabric formerly used appears to have the snapping problem beat.

Carl's "why-didn't I think-of-that" type idea was born of near disaster in the Paint Shop.

Failure of the lock cord to be set properly resulted in a 1,000-pound motor crashing some 20 feet off the end of the monorail, narrowly missing two employees stationed below.

After investigation showed the monorail to be in flawless mechanical order, Carl volunteered his solution to the problem.

Simple enough—as most of the best ideas are. And there hasn't been a single incident of forgetting to set the lock cord since.

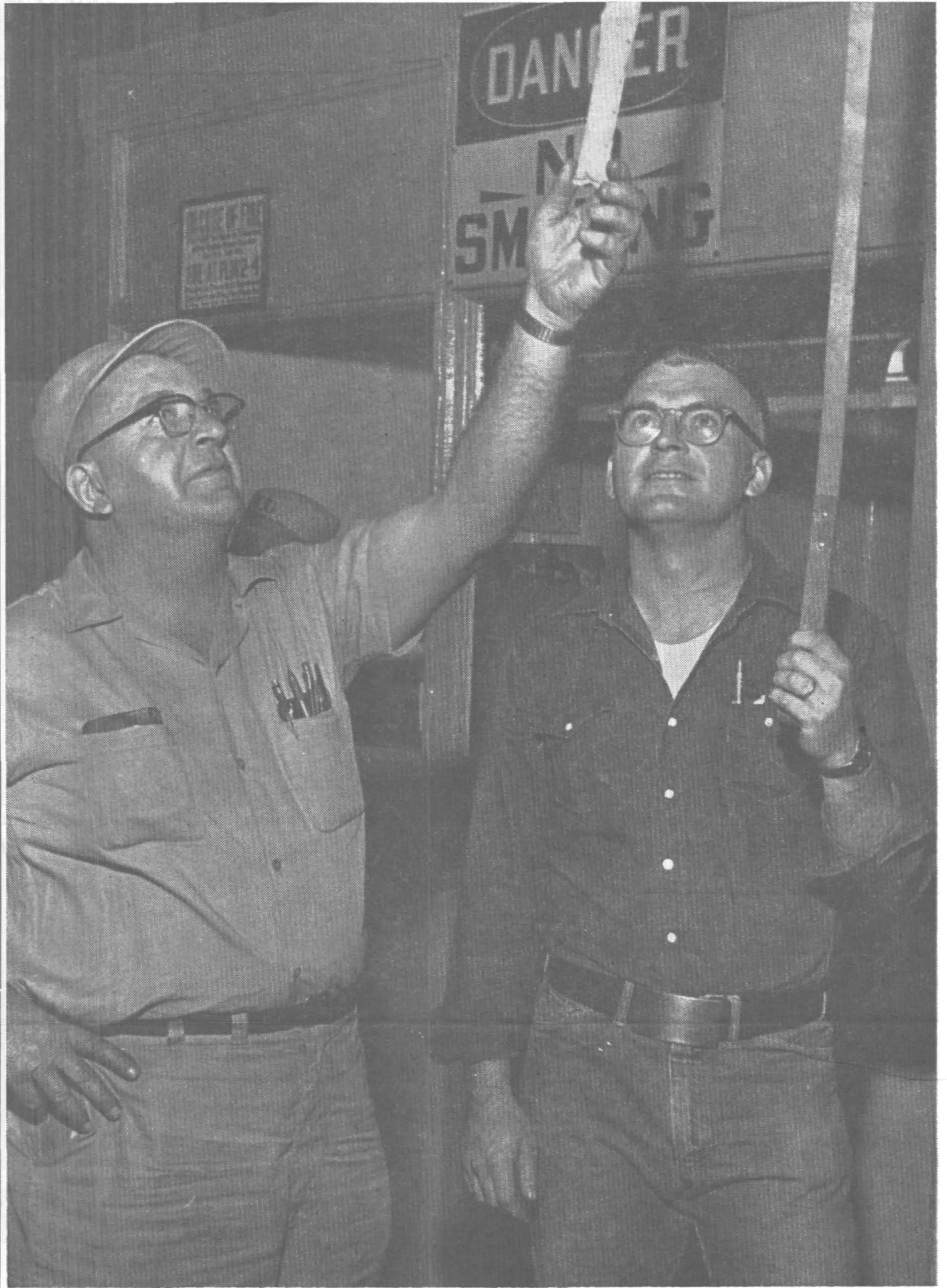
At about the same time, over at the Machine Shop, Harry dipped into a small "new idea" kitty to purchase some of the inexpensive superstrength plastic line used for towing water skiers.

The fabric line has been known to snap under tension of pulling, with the sudden relaxation of pressure sending a worker flying helplessly, perhaps toward any one of many sharp-edged pieces of shop equipment.

The water-ski line features a unique woven section that locks itself when pressure is applied. And its even colored in the caution yellow recommended by Carl.

So far, the new line is working out perfectly. If it proves durable over an extended period, it will be installed all along the monorail system.

So thanks to Carl Minton, who put in a little "free overtime thought" into a routine work assignment, and Harry Augustine (who's not even a water skier), the plant is a safer place to work today.



**SAFETY IS THEIR SIDELINE**—Harry Augustine, left, takes hold of the new "danger-yellow" coated monorail cord suggested by Carl Minton, right.

## Stop That Leak



When you see a leak, stop it if you can; report it if you can't. Any leak is costly. One drop a second can mean gallons of pollutants a day in a river.

## Three Move Up in Data Processing

Three Staley employees have been promoted to new posts as a result of the expansion and reorganization of the Data Processing Dept. in the new Corporate Information Systems Division.

Promoted were: **Dwayne Fleener**, from chief machine operator to assistant to the manager of Data Processing.

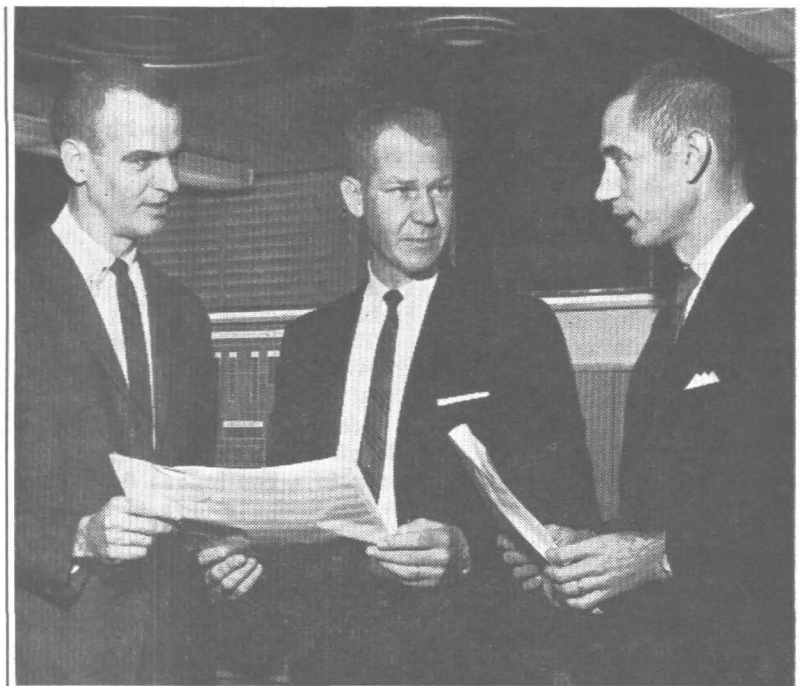
**Carroll Colter**, from data processing machine operator to supervisor of computer and electronics machine operations.

**William P. Taylor**, from data processing machine operator to control supervisor of Data Processing.

Fleener joined the Company in 1957 as a data processing machine operator, moved up to lead man in the machine room a year later, and had been chief machine operator since 1959.

Colter, an 11-year man here, started on the Extra Board, worked as a messenger before moving up to grain accountant in Control in 1954. He advanced to punch card operator in 1956.

Taylor had been a machine



**DATA PROGRESSING**—Staley employees William P. Taylor, Carroll Colter and Dwayne Fleener, left to right, move up in expansion and reorganization of Data Processing Dept. in new Corporate Information Systems Division. That's our 1401 Computer in the background.

operator since joining the Company in 1961.

In another Data Processing promotion, Larry Bruce moved up from trainee to machine operator. He had been a machine operator trainee since joining the Company in 1962.