

MUELLER
Record

OCTOBER • 1964



FOR A FISH STORY SEE PAGE 6

MUELLER RECORD

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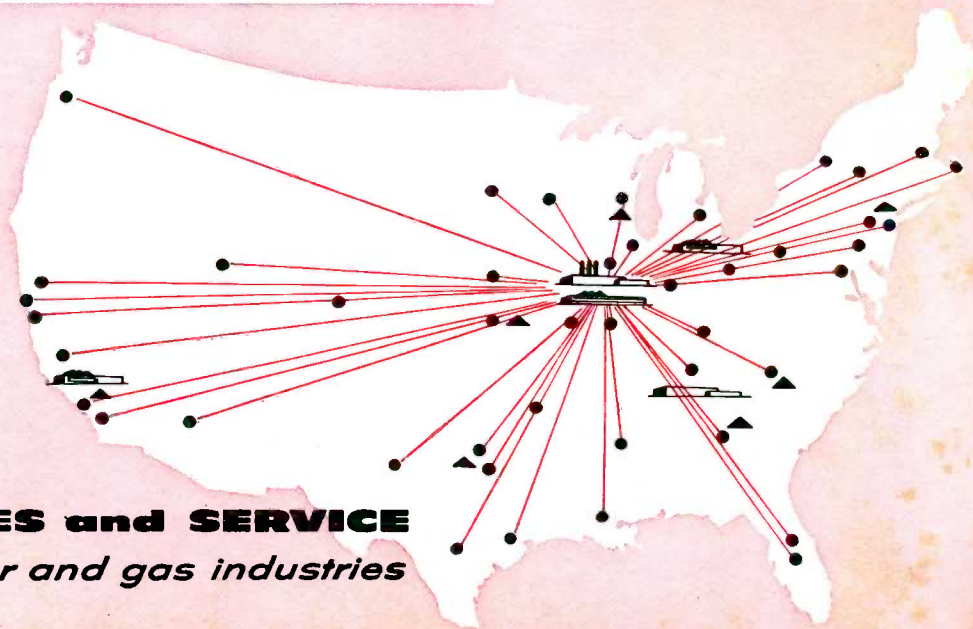
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Waterworks and Gas
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Back in the days before the phrase "Going to His Eternal Rest" meant getting a job with the government, Mark Twain was scheduled to make a talk. Noticing that his lecture was poorly billed, he stepped into a store and said:

"Good Evening, friend — any entertainment here tonight to help a stranger while away his evening?"

The storekeeper straightened up, wiped his hands and said: "I expect there's going to be a lecture. I've been selling eggs all day."

There have been quite a few changes made since that day. Although the price of eggs may prohibit their use as indoor guided missiles, we have become so well to do as a nation that we have a guilt complex about it. Conformity is sweeping the country. And, while more and more people want to get seats in the grandstand, fewer and fewer want to sweat it out down on the field. More and more youngsters who come in looking for jobs are asking, "What can you do for me?" rather than, "What can I do for you?" They want to discuss the extras they're going to get rather than the extras they're going to give. They want to know how cool it is going to be in summer—and how warm in winter. And how safe at all times of the year. And when they go to work, they hasten to hide their light in the security of a committee, where there is safety in numbers. The progress may be slow and the glory may be small, but the work is steady. Their eyes are on the clock rather than on the calendar. The Coffee Break is more important than the Big Break.

More and more girls are more interested in filing their nails than in filing what needs to be filed. The other day I overheard two girls in an elevator; one said to the other, "Heavens, no, don't learn shorthand. If you can't take dictation, you won't have to stay after 5 p.m."

We have always had our share of freeloaders in this country. As Channing Pollock once said, every generation produces its squad of moderns who march with peashooters against Gibraltar. But only in the past quarter century, it seems to me, has non-involvement become an accepted way of life. When we were poor, we *had* to sweat it out. We couldn't afford detachment from the life and fate of our country—and one of the great dangers of affluence is that it permits such detachment.

I'm going to mention quite a bit about a six-letter word. Why six letters? Because modern literature has snapped up all the four- and five-letter words as its own. So I am going to start on six-letter words: the word is "square"—S Q U A R E.

Back in Mark Twain's day, it was one of the finest words in our language, among the top ten on any lexicographer's hit parade. You gave a man a square deal if you were honest. You gave him a square meal when he was hungry. You stood foursquare for the right, as you saw it, and square against everything else. When you got out of debt, you were square with the world. (And that was when you could look your fellow man square in the eye.)

Then a lot of strange characters got hold of this honest, wholesome word, bent it all out of shape and

The Return of the SQUARE

gave it back to our children. Convicts gave it the first twist. To them a "square" was an inmate who would not conform to the convict code. From the prisons it was flashed across the country on the marijuana circuit of the bopsters and hipsters. Now everyone knows what a square is. He is the man who never learned to get away with it. A Joe who volunteers when he doesn't have to. A guy who gets his kicks from trying to do something better than anyone else. A boob who gets so lost in his work that he has to be reminded to go home. A guy who doesn't have to stop at a bar on his way to the train at night because he's all fired up and full of juice already. A character who doesn't have to spend his evenings puttering in a basement workshop and his weekends scraping the bottom of a boat because he's putting all that elbow grease and steam into doing a satisfying job on the job he's getting paid to do. A fellow who laughs with his belly instead of his upper lip. A slob who still gets all choked up when the band plays "America the Beautiful." A square — strictly from Squaresville.

His tribe isn't thriving too well in the current climate. He doesn't fit too neatly into the current group of angle players, corner cutters, sharpshooters and goofoffs. He doesn't believe in opening all the packages before Christmas. He doesn't want to fly now and pay later. He's burdened down with old-fashioned ideas of honesty, loyalty, courage and thrift. He may already be on his way to extinction.

He and the rest of us are living in a country today that is quite different from the one that we were taught to love.

We have come quite a way since Theodore Roosevelt told us: "Far better it is to dare mighty things, to win glorious triumphs, even through checkered by failure, than to take rank with those poor spirits who neither enjoy much nor suffer much, because they live in the gray twilight that knows not victory nor defeat."

What has happened to us, I think is that we have changed from an exporting country to an importing country.

I do not mean that we have let the world drain all of our gold away, although that is bad enough. I do not mean any imbalance of trade — threatening as that may be. I mean that we have been importing instead of exporting ideas.

The United States of America was once the greatest exporter of ideas the world had ever known. We created and sold abroad the idea of individual dignity, responsibility and freedom. We created and sold the idea of government of the people, by the people and for the people — an idea that is still being bought today. We exported the idea of freedom of worship; the idea of unfettered press; the idea that those who are taxed should be represented.

It is hard to find a basic idea that America has exported since you and I were young. We have, I think, bought in the bazaars of Asia Minor the idea that an honest man is either a fool or a liar. From our most mortal enemy we have bought the idea of a strong government for weak people. We have bought abroad the ideas of "Let Jack Do It," of "What's in It for Me?" — and the gesture of the neatly shrugged shoulder.

The other day I was told by a friend that his young son came home from his progressive school proudly exhibiting a book that he had won for excellence in natural history.

"However did you do that?" the delighted father tested.

THREE LEGGED OSTRICH

"The teacher," answered the son, "asked how many legs an ostrich has and I said *three!*"

"But an ostrich has only two legs," the father protested.

"I know," said the boy. "But I came closest. All the other kids said four."

This may be funny. But it is not funny that today our colleges are loaded with youngsters who are hardly prepared for high school—kids who cannot do simple arithmetic and who cannot spell simple words. This, too, was an import — the idea that the dull discipline of the three R's was disturbing to little Johnny's ego. We got really scientific and went to work on the poor little kid and his Id with the result that today hardly any school that really is a school is without a class in remedial reading. It would save considerable money if the class were held in the highest level of our teachers' colleges and were called "Remedial Thinking."

Our museums today are exhibiting on their walls paintings by people who never learned to paint. It used to be a sort of joke that you could not tell which was the top and which was the bottom.

Non-books are being thrown together and sold by non-writers who never bothered to learn how to write. Murky poems are being ground out by scraggly poets who sing them to their friends because they are unreadable. Here, for example, is one deathless line: "O man, thee is onion-constructed in hot gabardine."

Life magazine describes our beatnik geniuses as "fruit flies . . . some of the hairiest, scrawniest and most discontented specimens of all time, who not only refuse to sample the seeping juices of American plenty and American advance but scrape their feelers in discordant scorn of any and all who do."

Some of their output is worse than trash; some of it goes beyond making fun of Mom and Dad and marriage and automatic dishwashers and Suburbia.

Always tearing down these days. Never building up. Always knocking. Belittling. Down-grading. A sneer rather than a grin. A mocking laugh rather than a belly laugh. Poking fun at other people rather than at ourselves.

What, by the way, ever happened to laughter? Once we were a laughing nation. We laughed easily and deeply. The corn may have been as high as an elephant's eye — but we laughed, and it was good for us. We laughed at Lincoln, Mark Twain, Artemus Ward, Mr. Dooley, and Petroleum V. Nashby. Later we laughed at the gentle humor of such columnists as Don Marquis, F.P.A. and H. I. Phillips. We laughed at Will Rogers because he made us laugh at ourselves. Remember the sly, dry way he spun that rope and those yarns and got off those wonderful quips of his about life in general and politics in particular?

We laughed at Robert Benchley. Remember when a magazine sent him on an assignment to Venice and he wired back, "Streets full of water, Please advise."?

Today I think there is one true comic on the stage, and one real humorist writing a column. I am talking about Bob Hope and Art Buchwald. Others are cynical, sly and bitter. We laugh when we are told that everyone but squares knows that Mr. A or Mr. B is funny, but we don't know why we are laughing.

We refer to our humor as sick, sick and it is, is, is. Mother used to get cards on Mother's Day expressing in some way the fact that she was loved and wanted. Now if she is lucky she gets a card that shows "Whistler's Mother" flat on her back and a caption that says, "You're not the only one who's off her rocker." Otherwise, she may get a card that says, "Want to lose 15 ugly pounds? Then cut off your head."

Mort Sahl, to me, represents the cackling of despair. Even Bob Newhart, clean-cut and buttoned-down as he is, cannot resist the temptation to give a hot-foot now and then to our national idols.

I claim we need those idols. I am not going to be amused by a skit in which Lincoln's publicity man tells him "Write it on envelopes, Abe," or "Why don't you take it easy tonight, Abe, and take in a show?"

Laughter today is stored in Hollywood in cans, just as the gold was once stored at Fort Knox. It is taken out as needed and pasted onto television films. The laugh track tips us off to when things are funny.

I want to laugh when I am amused. I want to decide what I think is funny. This, I suppose, will mark me as a square. If it does, I will be in pretty good company. For this country was discovered, put together, fought for and saved by squares. It is easy to prove that Nathan Hale, Patrick Henry, Paul Revere, George Washington, Benjamin Franklin and almost anyone else you care to include among our national heroes were squares — by simply thinking what each might have said had he not been square.

Nathan Hale: Me spy on those British! Are you trying to be funny? Do you know what they do with the spies they catch? I'll give you a news flash, chum. They *hang* them.

Paul Revere: What do you mean—me ride through every Middlesex village and town? And in the middle of the night yet. Why pick on me? Am I the only man in Boston with a horse?

Patrick Henry: Sure, I'm for liberty. First, last and always. But we've got to be a little realistic. We're a pretty small outfit. If we start pushing the British around someone is going to get hurt.

George Washington: Gentlemen, I am honored. But I do wish you would try someone else. Let's say General Gates. I'm just getting things organized at Mount Vernon. You might say I had already served my time. Against the French, you know.

Benjamin Franklin: What we really need as Ambassador to France is a young man. I'm 70 years old! It's time a new generation took over.

It is perhaps a significant fact that what such men actually did say has been quietly sneaked out of our schoolbooks. *This Week* magazine made a survey recently of school history books issued before 1920, compared with those issued since. Nathan Hale said, "I regret that I have but one life to give for my country," in all of the old texts and in only one of the new texts.

Patrick Henry said, "Give me liberty or give me death" in 12 out of 14 earlier texts and in only two of 45 recent ones.

But John Paul Jones set the record. He said, "I have not yet begun to fight," in nine of the old books and in none of the new ones.

When Dwight D. Eisenhower was President he appointed a Committee on National Goals to decide where we were all going. Perhaps a first step should be a commission on national heritage to make sure that some of us at least remember where we have been.

Arnold Toynbee, the historian, says that of 21 notable civilizations, 19 perished not from external conquest but from the evaporation of belief within.

Today, our country still has a choice. I believe it has already begun to make that choice. I believe it is going back to its old beliefs in such things as ideas, pride, patriotism, loyalty, devotion and even hard work.

We are great believers in statistics in this country—and while the things that really count can never be measured even by the most advanced computers—sheer head-counting seems to indicate that people are beginning to struggle for better things.

Twenty years ago, half of us belonged to churches. Today 64 per cent of us do. It is perfectly possible that the churches are full and the people are empty — but the statistics are on our side.

Sales of classical records have jumped 78 per cent in the last three years. Advertising, perhaps, but the statistics are on our side.

Millions of people are visiting museums, millions more than a decade ago.

We spent over a billion dollars on books last year, and people are taking 670 million volumes out of our public libraries each year.

There are 50 per cent more symphony orchestras than there were ten years ago. Expenditures on all cultural activities have increased 70 per cent in the past ten years — to a total of more than 3,000,000,000 dollars.

You might point out to me that 3,000,000,000 dollars spent for culture, stacked up against 50,000,000,000 spent for war still isn't much. You will have to admit that there is a definite movement — and in the right direction.

Since the turn of the century, the percentage of our population that has graduated from high school is up ten times. The percentage that has gone to college is up seven times. The percentage in higher education who is trying to get higher marks is encouragingly greater than it used to be. There are indications that the day when it's smart to be smart is finally at hand.

But the greatest thing that has happened, of course, is that our nation has a whole new set of heroes—named Glenn and Grissom and Shepard—and Carpenter, Cooper and Schirra.

The forces of conformity are still strong. Too many of us are still sitting it out instead of sweating it out. Too many of us haven't got the guts to stand up straight and dare to be square because the opposite of square is round and being round is much simpler. Responsibilities and problems roll off easily. We can just roll down the path, without any bumps, being careful to stay in the middle because that's where the most comfortable ruts are.

SHORT CUTS TO NOWHERE

Too many of us know the short cuts, and too few know or care where the path leads. Too few of us dare to leave the path because the path is always the easy way, the way most people go. But there is no path to the future, no path to greatness, no path to progress.

How shall we fight for personal independence? How shall we avoid the group poop, the vortex of mediocrity, the great nothing of cynical sophistication?

May I suggest that we all join the S.O.S.? The Society of Squares. It doesn't even exist but it could. Not a left-wing organization. Not a right-wing organization. Just an organization with wings!

We might have to go underground for a while to avoid being trampled to death by the coast-to-coast rat-packs of cynical saboteurs and the canned-wit commandos whose devotion is to destruction.

But we would come out.

We might even have a secret handshake consisting mainly of grabbing the other guy's hand as though you meant it and looking him in the eye.

We would be for participation and against sitting life out, for simplicity and against sophistication, for laughter and against sniggering, for America and against her enemies, for the direct and against the devious, for the honest way against the short, for a well-done job and against the goof-off, for education and against the pretense of learning, for building and against tearing down, for the boys and girls who excel and against the international bedroom athletes.

We have, at least, the satisfaction of knowing that our problem is not new.

When Benjamin Franklin was told that the war for independence was over, he said, "Say rather the war of the revolution, the war for independence has yet to be fought." And today—181 years later—the war for independence has still to be fought.

THIS IS A FISH STORY



This is a fish story—a true fish story—and naturally water plays an important role.

This tale doesn't deal with the one that got away, but rather with the millions of pounds of rainbow trout that are turned loose each year by the U. S. Department of the Interior through its Bureau of Sport Fisheries and Wildlife and about 100 of its fish hatcheries throughout the United States.

Beside 220-foot high Norfolk Dam in the beautiful Ozark Mountain region of north central Arkansas lies a rainbow trout hatchery that will soon be the largest Federal producer of this specie.

When the present expansion of the Norfolk facility is complete, the plant will be capable of producing a half-million pounds of rainbow trout annually, and to do this, the hatchery will use enough

water to supply the daily needs of a city of more than 100,000 persons.

After the remodeled facility gets into full operation, it will use daily about 20,000,000 gallons of clear water from the North Fork River, contained behind Norfolk Dam near Mountain Home, Arkansas.

This cool water is not only necessary for sustaining the life of the fish, but it is a requirement for the incubation and hatching of the pearl-like eggs.

In cooperation with the Arkansas Game and Fish Commission and the Missouri Conservation Commission, the enlarged Norfolk hatchery will soon be distributing more than a million and a half young trout in an area comprising about 50,000 square miles.

Constructed in 1957, the hatchery originally produced brown and rainbow trout to be stocked in the

cold tail-waters of the White River below Bull Shoals Reservoir, and in the Norfolk River below Norfolk Dam. The rainbows have proven such a success in these waters that the hatchery now produces only this highly sought-after game fish, and the White River has become nationally famous for its trout fishing.

Since the water intake for the Norfolk hatchery is about 120 feet below the surface of the reservoir, the gravity water system reaches pressures of about 65 pounds per square inch.

As it goes through the aerators, the pressure reduces and is down to about 15 psi by the time it reaches the raceways. Presently the hatchery is using a 14-inch supply line, but when the new 24-inch line goes into service and new aerators are installed, the amount of water available will increase



from 5,000 gallons per minute to 20,000 gallons per minute.

Although water circulates through the hatchery building during the hatching process, the largest volume of water is used in the raceways, which serve as the home and growing area for the young fish.

Each of the 90 concrete raceways at Norfolk is about 100 feet long, three feet deep and eight feet wide, plus 12 nursery raceways. Since trout like cool moving water, with temperatures between 45 and 60 degrees, the water in the raceway is circulated at a rate that would fill each raceway two or three times an hour.

The untreated water flows out of the raceways into a creek which parallels the hatchery, and ultimately the creek returns the water to the North Fork River.

These raceways also serve as "home" for the three to five year-old fish which are singled out for breeding stock. Instead of depositing their eggs in the gravel of

stream beds, as nature dictates, the hatchery fish are stripped of their eggs and milt by workmen and safely deposited into hatching trays.

The spawntaker holds a female fish ready to spawn and gently presses the fish's belly until her deposit of from 2,000 to 2,400 eggs flows into a moistened pan. After stripping one or maybe two females, the spawn-taker selects a male and presses it until enough milt has been deposited into the pan to fertilize the eggs. Then the workman stirs the eggs and milt, adds a little water, shakes the pan gently, and sets it aside for a short time to let the milt fertilize the eggs. Finally, the spawnmaker washes off the excess milt and puts the eggs into water to harden.

As soon as the water hardens the eggs, they separate. They are then measured, counted and placed on trays and dipped in the cool water which swirls around them, simulating the brisk movements of a shady brook.

In a few weeks, eyes appear on the white eggs, and, in about 45 days, depending on water temperature, they hatch. Newly hatched fish are known as fry, and during their early days of life, they look like small gumdrops with a head and tail.

The gumdrop portion of the body is the fry's yolk sac and is the total supply of food during its early life. As the fry gets older, this sac becomes longer and slimmer until it disappears, and we have a young fish that now looks and acts like a fish.

For some weeks after hatching, a fry stays near the bottom of the tray, held down by the weight of its yolk sac. As the sac gets smaller, the fry becomes light in weight—and hungry—and it rises in the water in search of food.

In a short time, all the young fish learn to feed on the daily ration of packinghouse by-products. In about six months, the young fish grow to fingerling size,

This "catch" will be thrown back since this fisherman is a National Fish Hatchery employee whose job is to supply anglers with such trophies as this.



These Mueller gate valves are ready for installation throughout the new water system which will supply the Norfolk Fish Hatchery with 20,000 gallons of water per minute.





Milt from spawning rainbow trout (left) is mixed with the eggs of the female and placed in incubation trays



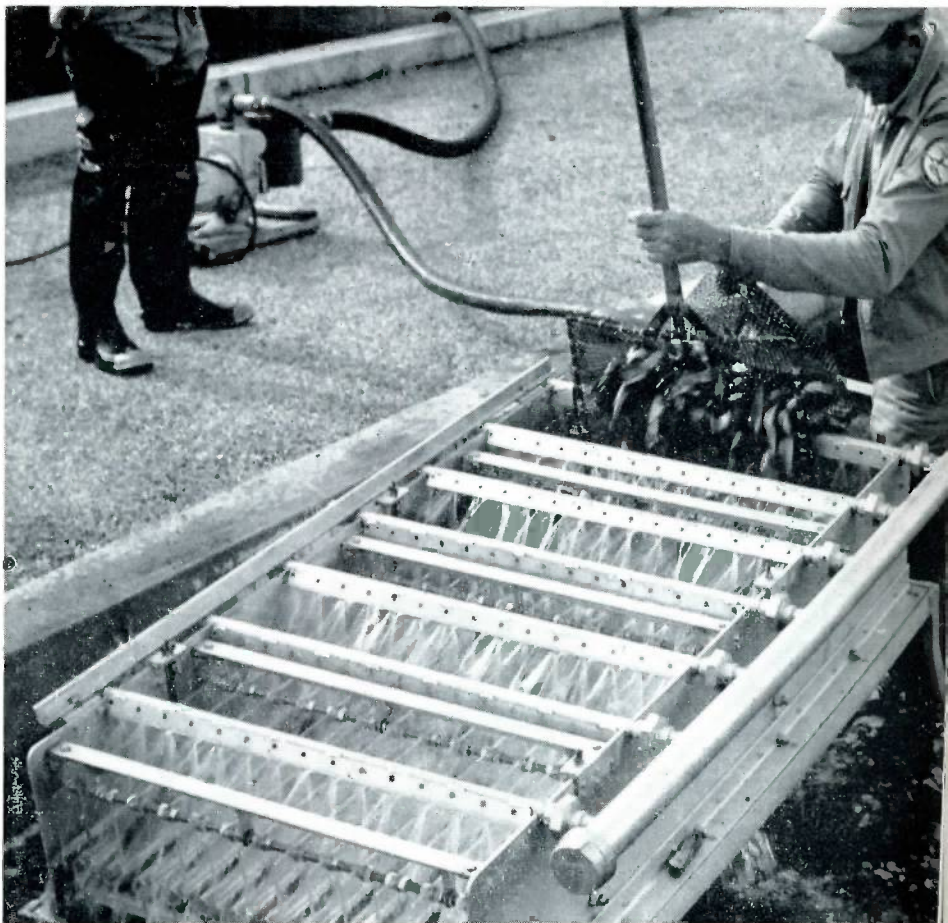
(right) where all-important water will swirl around them and ultimately lead to their hatching.

(two to three inches), and they are moved from the hatchery building to the outdoor raceways where they are fed a less expensive diet of mixed dry foods and meat products.

For the next year, they live in the safety of the raceway and grow at a rate that is partly determined by the temperature of the water. The cooler the water, the slower the rate of growth. The ideal temperature for fastest growth is about 55 degrees, and since the average temperature of the water taken from the reservoir is 47 degrees, the hatchery is making plans to increase the temperature. To do this a well, 850 feet deep, will be dug, which will produce 60-degree water at the rate of from 800 to 1000 gallons per minute. This will be mixed with the cooler water, raising the temperature nearer the ideal level of 55 degrees.

At Norfolk, the fish are cared for for about 18 months, and when they are turned loose, they are about 10 inches long, and weigh about six ounces.

Hatchery managers must be concerned with water supply, plant expansions and service just like a water superintendent, but at least they don't need to worry about collections, or listen to complaints from their customers.



Before fish are stocked, they are checked to be sure that they have attained proper size before they are turned loose. Here a hatchery worker runs the fish through a sorter, checking sizes.



The raceways (above) serve as the growing area for the six-month-old fish, and for the next year they stay here and thrive on a diet of mixed dry foods and meat products.



The fishery biologist constantly checks the water, food and fish to be certain that conditions are kept as ideal as possible for the healthy growth of the young fish. Below, workers take the young, six-ounce fish out of the raceways and load them on tank trucks where they are taken to different locations and stocked from boats.



You Must Tell Your Story

Every water utility strives to do a good job, but fulfilling this aim is not enough if the customer is not made aware of it. The support of each customer must be secured and to do this the user must be informed of the activities of his water department.

The significance of a good community relations program is impressed upon members of the American Water Works Association in many ways, but among the chief methods is the annual awarding of the John H. Murdoch Advancement Awards at the annual meeting.

Those selected as having the most outstanding community relations programs in the nation this year were: Monroe County (N.Y.) Water Authority, Class C. (more than 25,000 customers); Greenville, S.C., Class B. (from 5,000 to 25,000 customers); Chippewa Falls, Wis., Class A (fewer than 5,000 customers).

Congratulations to such progressive men as George R. Williams and Albert E. Woodhead at Monroe County; John L. Hawkins and W. W. Adkins at Greenville, and Clyde F. Lehman at Chippewa Falls.

These three water utilities were selected from among entries all over the United States which had won section advancement awards.

A three-pronged program aimed at the customer, press and employee won the New York Section Advancement Award and Class C. citation for Monroe County. Like all effective community programs, the campaign has been a continuing one.

For the customer, a quarterly booklet was distributed with the bills to each of the 40,000 retail customers. Each bill stuffer dwelled on a particular phase of water utility operation.

A letter of "welcome" is sent to each new customer and a fact sheet on the authority is available for the asking. A monthly newsletter is distributed to state and local of-

ficials, the press, and thought leaders. In addition, the press is kept informed of authority activities and a good relationship is maintained.

The employees are kept informed of activities, and a handbook has been prepared which outlines policies, benefits and rules of employment.

Also, an annual report is widely distributed and management people from the authority are available for speaking engagements before civic groups and service clubs.

This broad program is of the variety which could be utilized by many water companies in the country. In many cases there is little or no cost involved and for this reason, these could be used by a utility of any size.

Congratulations to the winners and to those companies around the country which have been practicing good community relations but didn't win an award this year.

Water Newsletter Celebrates 5th Year

Water Newsletter, published by Water Information Center, Inc., New York, is now celebrating its fifth anniversary of publication.

The growth and popularity of the "Newsletter" is attested to by the fact that it first was produced in one small office by two individuals, and is now housed in its own two-story water research building where its staff includes a number of highly qualified hydrologists and editorial people.

One Gift Works Many Wonders



GIVE THE UNITED WAY

Value Analysis—

A Search For Full \$\$ Value

Getting our "money's worth" is a phrase uttered and muttered daily by persons in all walks of life as everyone becomes more value conscious.

The housewife has it on her mind as she tries to stretch her weekly budget. The purchasing agent thinks about it as he judiciously buys for his company or utility. In the face of rising costs, the manufacturer must continually strive to find ways of reducing expenses and work to get full value out of each dollar spent.

Forty-six Mueller Co. middle-management people at Decatur, from all operating divisions, recently participated in a nine-day



All attention is turned to Value Analysis.

specialized course that is part of a continuing program aimed at getting our "money's worth" out of the components and assemblies produced at Mueller Co. or bought from outside.

The seminar was held at the Mueller Lodge and was conducted by Value Analysis, Inc. of Sche-

nectady, N.Y., one of the leading companies engaged in teaching the application of the techniques of Value Analysis or Value Engineering.

Value Analysis can be defined as an organized means of obtaining higher value from a product or

(Con't. on Page 4)

John Thurston Reports on . . .

Busy Days In Chattanooga

Many of us who work in Decatur, Brea or Sarnia are probably unaware of the hotbed of activity these days in Chattanooga.

The increased demand for our Chattanooga products during recent years has taxed the capacities of our present plant to the point where we are unable to keep up with orders. This necessitates an extended lead time and makes it difficult to remain competitive in some instances. The more than 1,000 hard-working Mueller employees there are of necessity working on an overtime and around-the-clock basis, and the foundry and machine shop on Chestnut Street are being worked far beyond their rated productive capacities. Despite all this activity, however, a small group of Mueller folks in the Chattanooga plant are simultaneously supervising an additional operation—that of creating an entirely new manufacturing facility on the site of the former Cramet plant. In this issue of MAIN CONNECTIONS, therefore, I would like to tell all of you who are not familiar with these "Chattanooga goings-on" something about our progress toward creating a new facility which we intend to make one of the finest and most modern iron foundry operations in the country.

The Cramet plant was completed early in 1956, to produce titanium sponge for the government, and after operating only three years, it was closed down. It has been unoccupied for the past five years, and as a result, the grounds and buildings took on a shabby look, although the structures are completely sound. After original production ceased in the plant, the property reverted to the Federal Government. In May of 1963 it was purchased by Combustion Engineering, who subsequently sold it to us in April of this year.

On May 4, of this year, our general contractor, the Mark K. Wilson Company of Chattanooga, started work at the Cramet plant site. The initial activity involved a general clean-up of grounds around the 52-acre site. This was followed by the demolition and removal of certain unsuitable buildings which we will not require in our planned operations. Following this clean-up job, it was possible to fence in the entire property,

(Con't. on Page 2)



JULY-AUGUST • 1964

JOE PENNE, Editor

JIM MILLIGAN

Manager of Communications

Mueller Active At 1904 Fair

This summer many employees have made or are planning a trip to New York City to see the World's Fair which is in progress.

In 1904, the Decatur employees had the advantage of the short hop to St. Louis to see the World's Fair, and included in that visit was a chance to see an exhibit by Mueller Co.

A book prepared by Mueller Co. marking its 50th year of operation says: "At the World's Fair held in
(Con't. on Page 3)

Two Promoted At Decatur

Two promotions in the Decatur manufacturing Division were announced recently by Factory Manager A. L. Sefton.

Hartford A. Lewis, Jr., has been promoted to Methods Engineer, and Martin L. Pucket has been named Night Foreman in the Ground Key Division.

Lewis started in the Tool Engineering section in 1955 as a junior draftsman and has been a senior draftsman since 1957.

Pucket started with Mueller Co. in 1950 and has spent most of his time in the machine shop at Plant 4 as a machine operator and later as night inspector-supervisor. During the past year, he has been inspector-supervisor on the night shift in the Ground Key Division.

(cont. from Page 1)

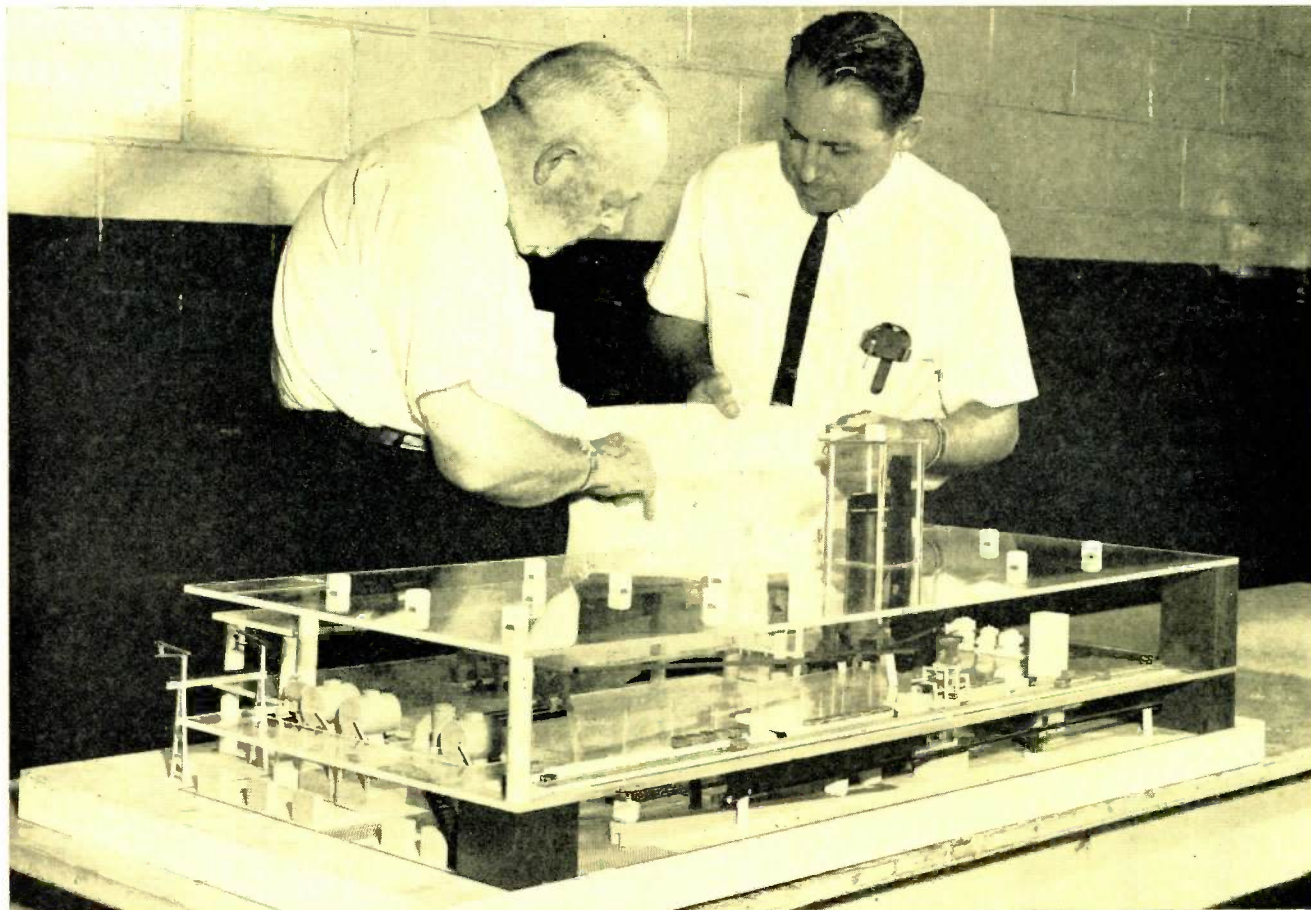
to repair the service roads and to level the areas which will be used either for storage, materials handling or parking space.

All of the above work has now been completed and work is now well underway on the actual rehabilitation of the three major buildings we acquired, in order to adapt them to our type of manufacturing operations. Meanwhile our general architect, Selmon T. Franklin, has prepared and presented to Mueller management preliminary drawings and specifications for a completely new office building which will be constructed adjacent to the manufacturing buildings. These preliminary plans have already been approved as to general lay-out and appearance and the architects are now preparing the actual construction drawings and final working plans for this 18,000 square foot office building.

When completed, our new Chattanooga plant will consist of approximately 320,000 square feet. Actually this is only about 60,000 square feet more than we currently have in the old Chestnut Street location. The total productive capacity of the new plant will be much greater, because of a more efficient plant lay-out and better work flow. In addition, older equipment will be replaced by new, and with these better tools, and modern facilities, our employees will have the means to produce more and better products.

Our present foundry on Chestnut Street has a rated capacity of 170 tons of iron poured per day. Actually, thanks to the hard work and ingenuity of our people in Chattanooga, this old plant is regularly pouring more iron than that—and frequently we have poured in excess of 200 tons in a day. Once we have moved into the new Cramet facility, we will

(Con't. on Next Page)



This model of the new Chattanooga manufacturing building which was used for equipment and machinery layout, is being checked by Chattanooga Plant Engineer Marion

Eckman (left) and Rex Smith, Construction Engineer from Decatur.

have a productive capacity of approximately 280 tons per day, according to the calculations of Frank Speer, our Vice President for Manufacturing in Decatur, Joe Wall, Plant Manager in Chattanooga, and their team of our best engineering and manufacturing specialists.

In the new location, the main manufacturing building which we are completely renovating and restoring, measures approximately 350' x 360' and contains two floors. Chattanooga management has now constructed a scale model of this building in order to determine the proper placement of all machinery and equipment. We intend to locate the foundry itself and the light machining sections on the second floor of this large building, devoting the ground floor to heavy machining, assembly, painting and testing.

Adjacent to the manufacturing building is another solidly built structure measuring approximately 250' x 175'. This second building will be used for warehousing and shipping. A second floor will be added in this building in order to provide space for new locker rooms, showers, and some supplies storage. A new employee canteen area will be included on the ground floor of this building. A third building nearby, measures approximately 140' x 50' and will be used primarily for maintenance and machine storage. In addition, our present plans call for the erection of a fourth building to be used for the storage of foundry supplies. This latter building will probably be of the prefabricated type and, in addition, we plan to move two other prefabricated buildings from our present plant to the new site for use as an area for cleaning castings.

In brief, then, this is about where we stand in Chattanooga as of this writing. A great deal of work is still necessary before cool weather sets in. By then the buildings will be ship-shape, the roofs repaired and the facilities in such condition that work inside can continue without interruption. Major pieces of new, modern, foundry and machining equipment are already on order and being built by various equipment suppliers. Our target is to be able to commence "start-up" operations next summer and to actually move into the new plant before the end of the third quarter of next year. Quite frankly, we will all be mighty happy when the move is completed because it will provide our 1,000 loyal Mueller folks in Chattanooga a much cleaner, safer and happier place in which to carry on their splendid work.

S/John F. Thurston

4-X Club Elects

The Mueller 4-X Club opens its 1964-65 season in September under new President Robert W. Mallow.

Mallow, Assistant Secretary and Budget Director, succeeds Larry Luckenbill, Project Engineer.

Other officers elected for the coming year are:

Carl Schuman, Assistant Iron Foundry Foreman, vice president

Fred Campbell, Packaging Engineer, treasurer

Bob Jesse, Personnel Assistant, secretary

Bill Knorr, Sales Promotion Technical Assistant, program chairman.

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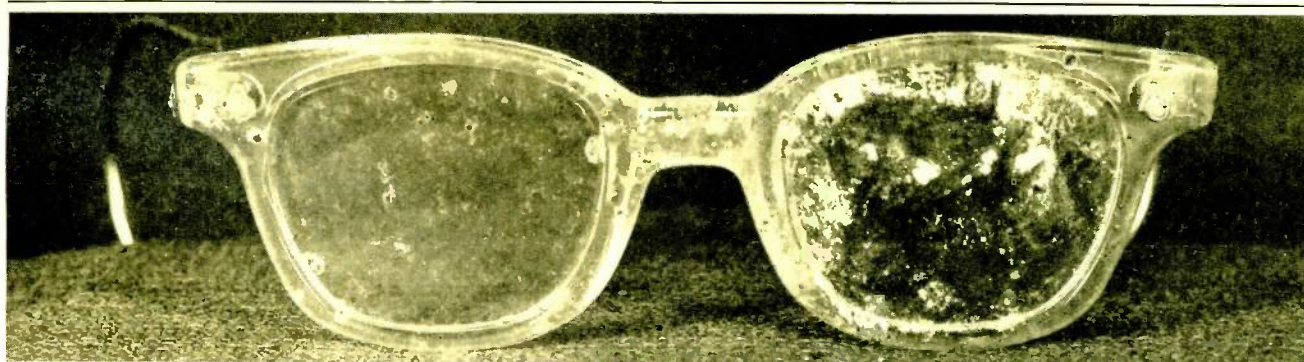
St. Louis in 1904, the company made an exceptionally meritorious exhibit of the products of the factory. This was a notable event in the history of the company. It gave widespread publicity to the lines of goods manufactured because of the sharply drawn comparisons with other products which were inevitable in such a complete gathering of goods from all portions of the globe. The exhibit was a success in every particular and was greatly to the advantage of the company whose goods did not suffer by comparison."

The article goes on to say: "The showing (of products) was of great educational value in demonstrating to Americans and foreign visitors the possibilities in brass manufacturing. Domestic and foreign users of the character of goods made by the company were quick to comprehend the superiority of quality, workmanship and design of Mueller goods."

The design of the exhibit in the Palace of Manufacturers caught the eyes of Fair judges as well as those of spectators, and Mueller Co. was awarded two grand awards and one gold medal for excellence.

At the 1964-65 Fair, Mueller Co. played a part in one of the major exhibitions by contributing financially to the Festival of Gas, which is sponsored by the American Gas Association.

Mueller Co., along with many other gas equipment and appliance manufacturers, utilities and pipeline companies, has shown its interest and support of the industry the company serves by supporting this pavilion, which tells and shows the story of gas.



If it hadn't been for these safety glasses, many of the particles of cyanide that can be seen on the frames and lenses would have gone into the eyes of Robert Clark. He was operating a cyanide furnace in Dept. 70 in Deca-

tur when the accident happened. Without the glasses, it is very likely that he would have suffered serious eye injury. Bob, now in service, certainly must recommend observing safety rules.



Jack K. (Dusty) Fowlkes, President and Co-founder of Value Analysis, Inc., spreads the word of Value Analysis to many of the 46 middle-management people from Decatur who attended the nine-day seminar at Mueller Lodge.

(Con't. from Page 1)

a procedure by getting the same or better performance at lower cost, without sacrificing essential quality. It uses an arrangement of techniques which clearly defines the functions the user wants from the product or the procedure. It then establishes the appropriate cost for each function and, finally, causes the required knowledge, initiative and creativity to be used to provide each function for that cost.

Value Analysis differs from and supplements cost reduction. Cost reduction asks, "How can I make this part at lower cost?" Value Analysis asks, "What is the function of this component or assembly? How else can I accomplish this function? What is the lowest cost way to do the job and still achieve the necessary quality?" Cost reduction programs can, and often do, result in savings of 10 - 15%. Value Analysis aims at 15 - 25% and often achieves 50% lower cost.

Value Analysis never sacrifices essential quality; it never argues that degrading quality or performance is sound economics.

To begin this long-range program of Value Engineering at Mueller Co., the participants were grouped into 15 teams at the Seminar. Fourteen of the teams consisted of three

men each who value-analyzed a broad segment of the existing product line from all our U.S. factories. These products ranged from high volume, older designs, such as the corporation stop and the gate valve, to the newer Mueller®/107 Fire Hydrant and the Oriseal valve.

One four-man team analyzed our procedure for handling requests for authorizations, including cost estimating. As many different divisions as possible were represented on each team, thus providing different viewpoints for approaching problems.

BLAST AND REFINE

After daily talks and illustrations of Value Analysis techniques, the teams attacked their particular projects, using the "blast and refine" system. This method breaks the product down into its smallest parts, and then proceeds to find ways of accomplishing the same function at lower cost.

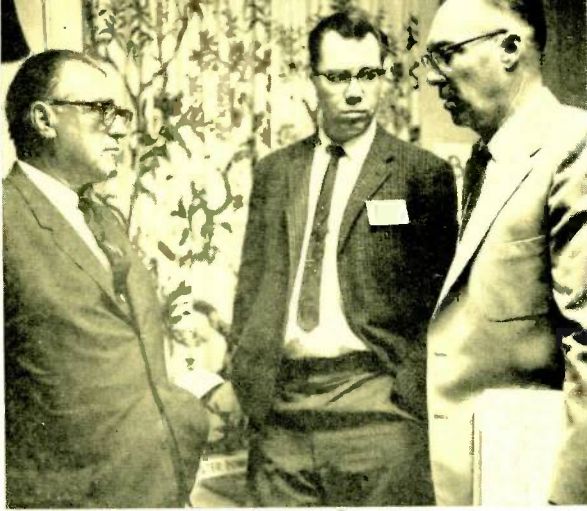
Twenty-three specialty suppliers, many of them new to Mueller Co., were on hand during the Seminar to discuss new products, methods and materials that are available as possible alternatives to those presently used. Use of a cold-headed component with greater strength and lower cost than the same part produced on a screw machine, de-

sign of a single component to accomplish several functions now requiring a number of separate parts, or elimination of bolts and threaded assemblies by adapting new fastening techniques for instance, can result in savings of thousands of dollars in large volume items and improve both quality and performance at the same time. The simple and seemingly obvious improvements can sometimes get buried in tradition, and they often become apparent when old methods are blasted away and the refinement begins with no clouding from past habits and attitudes.

SAVED \$35,000,000

Value Analysis, Inc. claims to have saved clients 35 million dollars in the first four years of their consultancy; they have assisted more than 50 major firms in the U.S. and Europe in the implementation of Value Analysis programs. These companies, ranging in size from 100 to 48,000 employees and manufacturing all types of products, have experienced an average return of \$10 for each dollar invested in the program.

According to Paul Hickman, Manager of Manufacturing, "The success of this long-term program at Mueller Co. will depend on the continuing active support of management, team members, and em-



These three engineers, (from left) Frank Mueller, Carl Floren and John Smith, seriously discuss the day's activities at the seminar, prior to returning to their offices and their regular jobs which had to be maintained.



This Value Analysis project team of (from left), Tom Gerstner, Bill Hauffe and Charley Johnson checks over cost figures as they give their product the "blast and refine" treatment.

ployees working toward the implementation of proposals that will be forthcoming as the results of value engineering."

Mr. Hickman, who is responsible for the Value Analysis program at

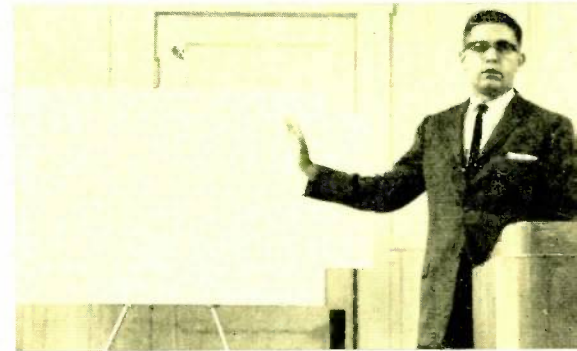
Tests For Value

Every material, every part, every operation must pass these tests:

1. Does its use contribute Value?
2. Is its cost proportionate to its usefulness?
3. Does it need all of its features?
4. Is there anything better for intended use?
5. Can a usable part be made by a lower cost method?
6. Can a standard product be found which will be usable?
7. Is it made on proper tooling — considering quantities used?
8. Do material, reasonable labor, overhead, and profit total its cost?
9. Will another dependable supplier provide it for less?
10. Is anyone buying it for less?

Mueller Co., said that a full-time Value Analysis Manager will be appointed to continue the work "that just got off the ground as the result of the Seminar."

Projects and their priority will be selected by the Value Analysis



Charlie Bafford (left) listens intently as Jim Serre presents the recommendations of his team to the seminar participants.

Manager with the assistance of Division heads and submitted, with necessary information to support a decision, to the Management Committee for authorization. The first concrete proposals to come out of the program were presented to the Committee in August.

Each team meets weekly to review accomplishments and plan continuing work on its project to develop it into a final recommendation.

30% REDUCTION

Value Analysis applied to the 14 existing products during the Seminar resulted in an estimated average reduction of about 30 per cent of total dollars of annual cost analyzed. Mr. Hickman added: "It is recognized that for reasons such as possible patent restrictions, need for careful evaluation of capital investment necessary to bring about many changes, development of design and test data, market research, code requirements and possible un-

desirable effect on present burden rates, not all of this potential is realizable and time will be required to implement the recommendations."

"An intangible benefit, but possibly the most important to be derived from the program, will be improved cooperation and communications among the personnel of all divisions. Better understanding of mutual problems, goals and requirements, as well as a more clearly defined knowledge of our costing policies were clearly evident during the close working relationships achieved among the Seminar participants," Mr. Hickman concluded.

A second Seminar is now scheduled for November, with participants being selected from Chattanooga, Brea and Sarnia, as well as others from Decatur.

This group will be added to those 46 participants who, through Value Analysis, have acquired a *constructive discontentment with high costs.*

Inez Mooring, who has worked for a number of Mueller Co. executives in our west coast operations, retired recently after 20 years with the organization. At the time of her retirement she worked for Paul G. Caho, Manager of Inside Sales. She worked for Billy Dill for a number of years while he was general manager of the L.A. plant. After Mr. Dill retired, she worked for Lloyd Logsdon, who was a Mueller Co. vice-president and general manager at Los Angeles. A gift of cultured pearls was presented to Inez by co-workers at a retirement party. She has started an extensive travel schedule, and judging from her post cards, she is having a wonderful time.

Another popular employee, Mike Liebherr, retired recently after 28 years of service with Mueller Co. Mike has had some back problems which led to his retirement. We hope he regains his good health, and we wish him good luck in his retirement.

Our golfers are having a good time on the Fullerton course with



MUELLER CO. in Brea



By

Warren Wunderlich and Kathryn Thompson

Bruce Stotler, Augie Werdes and Julius (Caesar) Bouler setting the pace.

A fishing trip was enjoyed by some of the men in the shop recently. They chartered a boat and fished in Mexican waters. They report that they hauled in about 300 fish in spite of the bad weather. They claim the "big ones" were not biting, but Leonard Johnson hauled in a 12-pound white sea bass for the biggest catch of the trip.

Leonard Johnson, Steel Machine Shop Foreman, also made the biggest catch in the bowling sweepstakes at Brea. He won the high

series and high single game, and then teamed up with Walt Traves to cop the doubles division.

The bowling award dinner and dance were held at the Fullerton Elks Club and from comments, everyone enjoyed themselves—particularly the members of the Brass Foundry team. This team of Rod Neal, Herb Logan, Frank Mecado, Helen Staley and Ben Piott went from ninth place in January to win the league. Sales took second and the Iron Foundry team placed third.

"Most Improved" bowler awards went to Lee Hawks and Caroline Beatty. Lee also had the high men's series for the season. Other individual awards went to: Paul Caho and Timmy Errickson for high games for men and women, respectively, and Marge Narasky, who had the best series among the ladies.

We have three weddings to report:

Troy Koppers, Tool Grinding, recently married Donna Osborne, who moved here from Oregon. Bob Highwood, Brass Machine Shop, married former Cleveland, Ohio resident, Jean Kertz. Another Brass Machine Shop man, Dennis Bonee, recently was wed to Suzanne Kunce. Best wishes to you all.

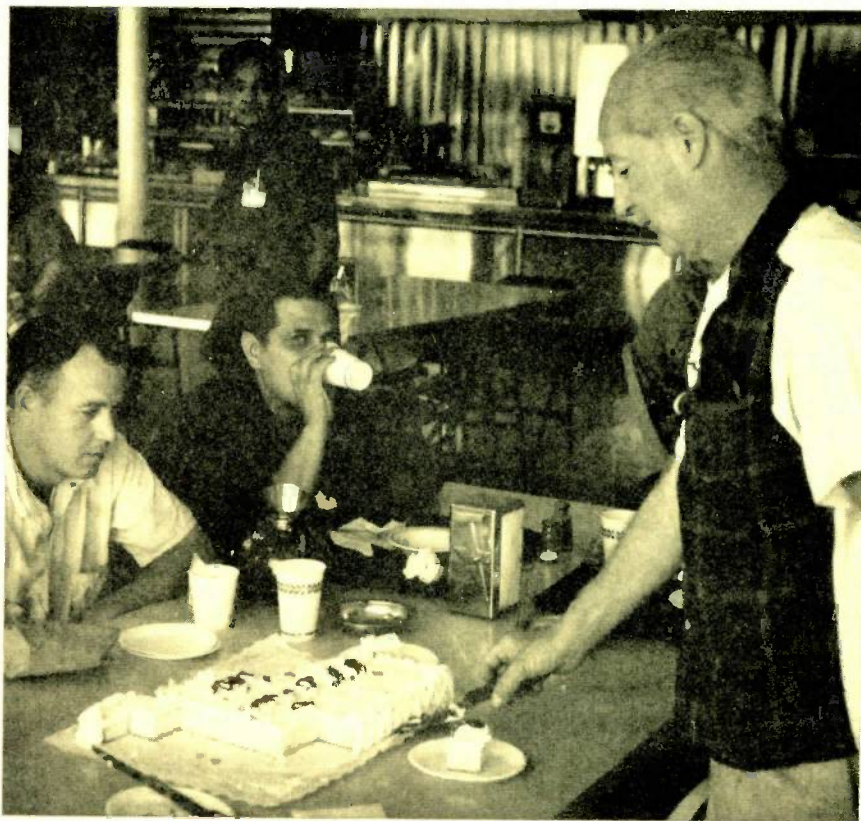
Congratulations to the following new parents:

Roy Taylor, Brass Assembly Dept., a son, Roy Thomas Taylor, Jr.

"Hap" Story, Iron Machine Shop, on the birth of a daughter, Lisa Ann.

Doug Summers, Tool and Die Dept., a daughter, Teresa Lynn.

Don Newell, Drop Forge Dept., a boy, Troy Donald.



Mike Liebherr cuts a cake in the Brea cafeteria, ending a 28-year term with Mueller Co.

MAIN CONNECTIONS



Edith Staley (left) and William R. Beatty are recent high school graduates. Edith, daughter of Helen Staley who works in the Laboratory, graduated from Santa Fe High School. William, who graduated from LaSerna High School in Whittier, is the son of Vern Beatty, who is a Mueller Sales Representative in California.

We extend our sympathy to the widow of George Herrera. Mr. Herrera, who worked in the Iron Foundry, passed away in Orange Hospital, following surgery. He had been with us since the opening of the Brea plant.

Our sympathy also to Bernell Larson on the death of his mother; and to the family of George Jacob who worked in the Steel Machine Shop.



The members of the winning Brass Foundry bowling team are, (from left) front row: Rod Neal and Herb Logan. In back: Frank Mecado, Helen Staley and Ben Piott.

Fire Hydrant production in Brea began in mid-June. Testing one of the first hydrants (left) is Frank Williams, Iron Machine Shop Foreman, and Eric Peterson, Tool Engineer. Below, Jim Fluegge touches up a hydrant prior to shipment.





After maintaining offices in San Francisco for more than 50 years, Mueller Co. moved its Northern California offices into the building above, which is in Burlingame, about 15 miles south of San Francisco. The move eliminated the traffic and parking problems associated with downtown San Francisco and located the office in the

New Mills industrial area. Mrs. Alice Dinwiddie, (center, below) who has been with Mueller 19 years, operates the two-room suite office. Operating out of the office are Mueller Salesmen Bill Hill (left, below) and Don Kelley. Prior to his recent retirement, Mac McCown (below, right) also used the office for headquarters.

NEWS FROM ADAMS

The Adams Division recently received a safety award from the Greater Los Angeles Chapter of the National Safety Council. The second-place citation went to Adams for its safety work in the Pipes and Fittings Manufacturing Section. Receiving the award on behalf of the company was Shop Superintendent Floyd Chastain, who is also chairman of the plant safety committee. The awards were given at a dinner in the Ambassador Hotel in Los Angeles.

An important event in the lives of the James Lynagh family took place this year. Jim, his wife, Gladys, and son Paul, became citizens of the United States after living in this country six years. Jim is a native of Scotland and lived in Toronto, Canada, for a number of years before coming to the U.S. Jim, who works in Production, has been at Adams for five years.

Our pipe clamp builders have devised a new way to relax during off-hours—pitching horseshoes.



Most active are the teams of Floyd Chastain and Donald Hall, and Leland Steinle and Ted Williams. Harold Axford and Jim Lynagh often join in and take on the "winners."

Best wishes to two employees who married recently. John Morris married Mary Pat Bessenbacher in Las Vegas, and Richard Polhamus married Janet Gasparelli in Monrovia, Calif.

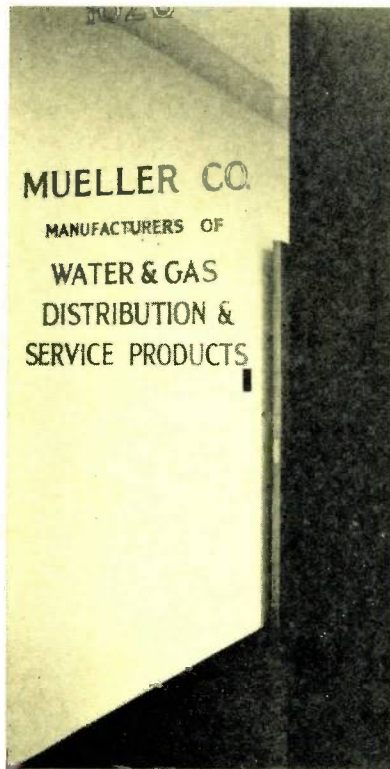
Congratulations to Greg Hernandez and his wife, Ruth, who have

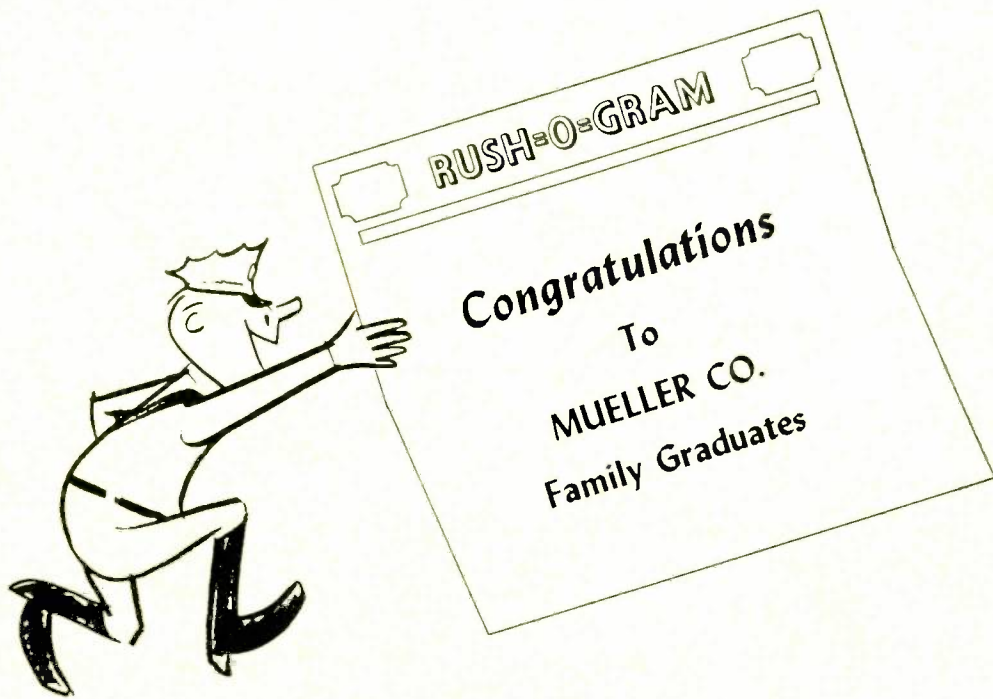
a new baby girl Lucy Ann.

Our two Adams Division bowling teams are taking a rest this summer in an attempt to gather new strength. Last season they finished last and next-to-last in the mixed industrial league. Our "stars", Jocille and Mel Schelbauer, Marie and Larry Iacoucci, Jim Trehwella and Helmut Hedinger, and occasional subs Helen and Bill Adam and Harold Axford, are presently looking around for a new league where the competition is a little more "friendly."

New Offices in New York

Mueller Co. recently moved its New York office into a new suite of rooms on the 18th floor of the Empire State Building, moving up from the 13th floor of the famous building. The photo at the right shows the entrance and the reception area. Below can be seen the outer office for secretaries Beverly Warren and Bea Perkins. At the lower right is George Knipe, New York Sales Office Manager. The desk in the foreground is used by Eastern Section Sales Manager Herb Huffine. The New York office and warehouse were opened in 1905 under the direction of Oscar B. Mueller. It occupied a building at the corner of Canal and Lafayette streets and by 1907, 31 persons were employed in the office and warehouse. Today, only the sales office is maintained.





DECATUR AREA GRADS



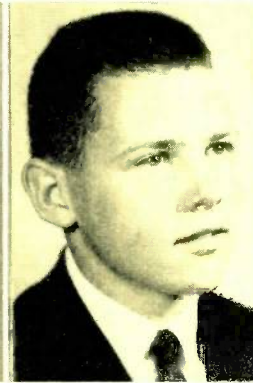
Mary Ruth Manks
MacArthur
Thomas Manks
Dept. 60



Pamela Fleckenstein
MacArthur
Joe Fleckenstein
Traffic



Donna Kaye Dazey
Lakeview
Paul W. Dazey
Dept. 80



Gary Brownlow
MacArthur
W. L. Brownlow
Dept. 20



Lynnette Nottingham
Lakeview
Wayne Nottingham
Dept. 70



Carolyn Fears
MacArthur
Otis Fears
Pattern Shop



Linda Denning
Stephen Decatur
George Denning
Dept. 80



Carolyn Hawbaker
MacArthur
Paul Hawbaker
Dept. 36



Jerry Hawbaker
Univ. of Ill.
Paul Hawbaker
Dept. 36



Karen Epperson
Niantic-Harristown
Onal Epperson
Dept. 70



Tincie Morey
Nokomis
Harold Ruppert
Dept. 47



James Fristoe
Mt. Zion
Jim Fristoe
Dept. 80



Joseph E. Fyke
Lakeview
Joseph J. Fyke
Dept. 50



James Suits
MacArthur
Christopher Suits
Dept. 60



Donn Cross
Stephen Decatur
Mel Cross
Dept. 70



Ronald Oliver
MacArthur
H. K. Oliver
Dept. 35



Donna Reidelberger
Stephen Decatur
Dale Reidelberger
Dept. 36



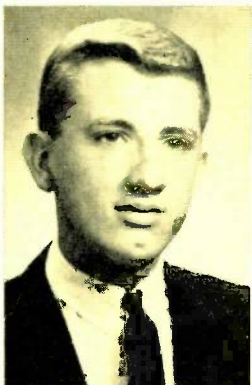
Darlene Stacey
Stephen Decatur
Claude Stacey
Dept. 70



Doug Edwards
MacArthur
Lynn Edwards
Engineering



Sandra Ashby
Blue Mound
Leroy Ashby
Dept. 80



Steven Krotz
Eisenhower
Betty Krotz
Dept. 43



Patricia Taylor
Macon
Robert Taylor
Dept. 80



Dennis Moeller
MacArthur
Lloyd Moeller
Dept. 80



James O'Brien
Eisenhower
Bill O'Brien
Dept. 70



Richard D. Ford
Indiana U.
School of Dentistry
Marvin Ford
Dept. 70



Ronda Bruns
Cerro Gordo High
Lloyd Bruns
Dept. 70



David Wall
Lakeview High
Roy Wall,—Dept. 80



Betty Wall
Cedarville College



Sharon Lee Tapp
Millikin U.



Sandra Kaye Tapp
MacArthur High
Elsie Tapp
Factory Mgr's. Office

Ernie Campbell Hits 45 Years

Charles (Ernie) Campbell has reached a milestone that few Chattanooga employees are able to attain—45 years of service with Mueller Co.

Ernie was born in Walker County, Georgia, on November 20, 1900, and 19 years later was hired by the Columbian Iron Works. He spent the first three weeks of employment tearing down a building which had burned. From there he went into the Assembly Dept. and apparently he found a home, for he has been there ever since.

He is presently Inspector and Service Engineer for the Assembly Dept. During Ernie's 45 years, he has seen the plant grow from 150 employees in an old set of wooden buildings to a three-shift operation with more than 1,000 persons employed. Before he retires, he should see operations moved to new facilities.

Mueller's association with Ernie has been a most pleasant and rewarding experience. "He is a most loyal and conscientious employee and we are extremely proud that he has completed 45 years with us," according to Plant Manager Joe Wall.



Ernie Campbell (right) receiving his 45-year service pin from Chattanooga Plant Manager Joe Wall.

4 Get Wise

Owl Memberships

Membership in the Wise Owl Club of America have been given to four Mueller Co. employees in Chattanooga.

The awards, which are given to employees who have avoided serious eye injuries by wearing proper safety equipment, went to:

Howard Fluellen
Lacey Brown
Robert McDaniel
Archie Brooks

In each case a lens was broken in a pair of safety glasses, but no eye injury was suffered. Howard and Lacey work in the foundry, and hot metal splashed and struck their

glasses. Robert and Archie work in the cleaning room and were properly protected from casting chips.

In all four instances, the employees could have suffered severe damage to their eyes, with a possible loss of sight, according to Ron Reed, Personnel and Safety Director at the Plant.

Working in foundry and machining operations, accidents are always a threat. Only through the proper use of safety equipment and an employee's alertness can accidents be reduced and ultimately eliminated, he said.

We earnestly hope that no one receives an injury while working for Mueller Co., and one way to avoid accidents is to properly use all safety equipment and to observe safety rules. It is only through the cooperation of the employees and the company that any safety program can be successful.

Malone Heads Chattanooga QC

Jack N. Malone was promoted July 1 to Quality Control Supervisor at Chattanooga.



Jack, who joined Mueller Co. in 1942 as a machine operator, had been Assistant Production Manager since 1950.

He graduated from Central High School, Chattanooga, and is presently attending the University of Chattanooga. He served in the U.S. Army from January, 1944 to February, 1946. Jack, 41 years old, is married to the former Dorothy Walters and is the father of a son and daughter.

Chattanooga Grads

(Students name, school, parent's name and department appear under each photo.)



Cecil D. Brown
Howard High
I. V. Brown—Dept. 50



Virginia Brown
Howard High



Cynthia Farrow
Howard High
William Farrow
Dept. 50



Mattie F. Eberhardt
Howard High
Willie M. Eberhardt
Dept. 30



Dora Lee McGee
Howard High
Reginald McGee
Dept. 50



Adolphus
Hollingsworth
Howard High
James Hollingsworth
Dept. 50



Thomas M. Robinson,
Jr.
Howard High
Mitchell Robinson
Dept. 50



Elizabeth Hise
Valley High
James O. Hise
Dept. 50



Monroe Adams, Jr.
Howard High
Monroe Adams
Dept. 50



Virginia Adams
Howard High
Monroe Adams
Dept. 50



Marilyn Sadler
Riverside High
Allen Sadler—Dept. 70



Juanita Kay Skipper
Tyner High
Reuben Skipper
Dept. 24



Harlena B. Marsh
Hollis Marsh
Dept. 50



Judith Ann Brown
Chattanooga High
Fred H. Brown
Dept. 60



Geraldine Pekala
East Ridge High
John A. Pekala
Dept. 60



Martha Ann Jones
Howard High
Quincy Jones
Dept. 50



William A. Millard
Tenn. Polytechnic
Aileen Millard
Payroll



Carter M. Brown
Howard High
I. V. Brown
Dept. 50

Wilf J. Saint-Cyr, Sales Representative for Mueller, Limited operating out of Montreal, Quebec, has been elected trustee of the Equipment Section of the American Water Works Association, Canadian Branch, Quebec Section. In this position, Mr. Saint-Cyr will work closely with the manufacturers, soliciting their support for the Association and its conventions. There are presently 62 equipment members composed of both manufacturers and suppliers.

Barbara Matthews, daughter of Gordon Matthews, (Tool Room) a grade 12 honor student of St. Clair High School, won the Ontario



Barbara Matthews

Secondary Schools Typing accuracy honors in the 1964 competition which initially had thousands of student competitors in the race.

Miss Matthews' achievement wins for her the Royal Accuracy Cup and also the Remington Rand Cup awarded for having the second highest net score.

She went into final judging as a result of earlier winning the J. E. Johnston Trophy, emblematic of the district typing championship for secondary school students.

The accuracy champion won the province's top award by typing 71.8 words per minute with two errors in a 10 minute speed test from unfamiliar copy.

MUELLER, LIMITED Reports . . .

by

PHYLLIS TURNER



The wedding of Hugh Forbes, Ground Key Department, and Velma Ewing of Sombra, took place recently at Devine Street United Church, Sarnia. They have taken up residence in Sarnia.

Frank Sargent (Shipping Room) and Kathleen Duffy were married May 16 in St. Paul's Anglican Church, Point Edward. The reception was held at the Guildwood Inn after which Frank and Kathleen left on a wedding trip to Niagara Falls.

The wedding of Jean Theriault (Streamline Dept.) and Carole Ann Church, took place May 23 in St. Thomas Aquinas Church, Sarnia. Following the wedding ceremony, the reception was held at the Chalet Motor Motel. For their honeymoon, Mr. and Mrs. Theriault took a trip to Toronto. The newlyweds are living on Queen Street, Sarnia.

Lawrence (Larry) Smith (Assembly Dept.) and Viola Fell were married on May 15. Mr. and Mrs. Smith are residing in Courtright.

VE3FXB is working in Mueller, Limited's Engineering Dept. No, this isn't the code number for a new computer system, but rather it is the radio code name for Lillian Bennett, who is the first woman in Sarnia to receive her amateur radio operator's license.

While taking a communications course sponsored by Emergency Measures Organization (EMO), she became interested in amateur radio operating. This course led to a restricted operator's license which allowed her to work for the EMO on mobile units.

During her training this past year, she built her own receiver from a kit, and on the night she

received her license, her fellow hams in the Sarnia Amateur Radio Club presented a transmitter to her.

The course which stimulated her radio interest also introduced her



VE3FXB

to Morse code, which she now receives and transmits at the rate of 10 words per minute. She is now planning to take an advanced course which requires code at the rate of 15 words per minute.

Besides a thorough knowledge of her radio set, the new ham must know general theory and regulations governing radio operations, ethics of communications, radio language, and proper procedures.

Lillian is looking forward to many new friendships cultivated through the airwaves.

Our sincere sympathy is extended to the following employees and their families on the passing of loved ones: Bob Smith and his wife in the loss of their infant son Donald Robotham in the loss of his father

Roy Payne, (Dept. 7) and Lorna

MAIN CONNECTIONS

Payne, retired employee, in the loss of their mother and wife, respectively.

Norman Gilbert in the loss of his brother

Dick Asselman in the loss of his father

Garnet Denomy in the loss of his father

Violet Henderson in the loss of her father

Irvin and Mrs. Tremain in the loss of Mrs. Tremain's father

Maurice and Mrs. Simard in the loss of Mrs. Simard's father

Sympathy is also extended to Retiree George Oliver in the loss of his wife.

After a lengthy illness Philip Riley (Streamline Dept.) passed away in his 58th year. He had been with Mueller, Ltd. since Aug., 1943. Seventeen years of his service was in the Foundry Division, and for

his remaining years he was a tester.

George Hayward, a 40-year employee, passed away unexpectedly while on the job. At the time of his death he was Assistant Foreman in the Core Room. A willing worker and genuine person, George made many friends who will long remember him. Surviving are his wife, Beatrice, and his daughter Phyllis.

Congratulations to the happy and proud parents on their recent arrivals:

Mr. and Mrs. Garfield Cross, a son, Ronald Wayne

Mr. and Mrs. Kenneth Perdeaux, a son, Richard Charles

Mr. and Mrs. John Bazeley, a daughter, Catherine Elaine

Mr. and Mrs. Gil Murray, a daughter, Louise Ann.

Brown Retires At Chattanooga

After a full 30 years with Mueller Co. in Chattanooga, Oscar E. Brown put aside his engineering instruments for the last time on July 14.

Oscar began his career as a draftsman in 1934 and progressed through such positions as: products engineer, development engineer, to his last job of senior specifications engineer.

He received a number of gifts from friends and was honored by the Foreman's Club at a dinner on July 8. Gifts from the foremen included: a new watch, an electric shaver and a silver-plated plaque which had his engineering dividers mounted upon it.

Also at the dinner, a letter from Frank Mueller, Vice President for Engineering, was read which summed up the feelings of the people at the Chattanooga factory.

The letter reads in part:

"I understand that your retirement is imminent, and the realization of this leaves me with mixed emotions. I don't suppose any of us enjoy facing a change in a long and happy relationship, but the opportunities offered by retirement for doing things one never had time for before certainly should be anticipated with pleasure.

I have always had the greatest confidence in you and in the fact that your efforts were energetic, honest, and always aimed at improving Mueller products and Mueller Co.'s position.

I take this opportunity, Oscar, to thank you personally and in behalf of Mueller Co. for your appreciable contribution to the growth of the Mueller Chattanooga plant and to wish you the fullest enjoyment of the years to come.

Oscar and his wife, Maud, plan to take a trip through the west this fall, and then keep busy with work around the yard and home.



Brown



Mr. and Mrs. Claude (Curley) Chappell recently celebrated their golden wedding anniversary with an open house. Curley is a Mueller, Limited retiree with more than 38 years of service. He keeps busy putting in his workshop and doing jobs at home and for his four children who live in Sarnia. The Chappells have 10 grandchildren.

DECATUR BIRTHS

Congratulations to the following Decatur employees who recently welcomed new babies into their homes:

Robert Weaver (Dept. 60) boy
Terry McCoy (Dept. 70) boy

Howard Halbrook (Dept. 10) boy
Keith Williams (Dept. 38) boy
Bob Mallow (Dept. 48) girl
Paul Bollhorst (Dept. 80) girl
Arnold Jones (Dept. 70) boy
Robert Ridgeway (Dept. 38) boy
Robert Henderson (Dept. 35) girl
Phillip Wiseman (Dept. 35) girl



Sarnia Depts. Cited For Safety Records

Three Mueller, Limited departments recently received safety awards for completion of a year of accident-free work. In the upper photo, Harry Dowding, Industrial Engineer, presents the safety award to William Foster, Foreman of the Maintenance Dept. This is the third consecutive year Maintenance has been cited. In the center photo, Keith Payne, Safety Committeeman, proudly displays the award for safety which Department 11 received. In the lower photo, Production Superintendent Don Thain (left) awards a safety certificate to Dept. 8 and its representatives, Russell German, departmental safety committeeman, and department foreman Ed Ellenor (right).





Debbie Lentz, daughter of Sales Representative Ben Lentz, appears to be pointing out a feature of a Mueller hydrant to one of her dad's customers in New Jersey. We are sure that Debbie and the hydrants are two of Ben's favorite topics of conversation.



"What do you mean, 'call up and tell them I'm sick'. This is Saturday."

Dept. 80 Wins 1st Half Title

Dept. 80 blazed home with eight points on the last night of the first round of the Mueller golf league to take first half honors and break a first-place tie with the Standards team.

The Standards team, which led most of the first half, slipped into a tie with Dept. 80 on the eighth night of the nine-week season.

Members of the first round winners are: Howard Hull, George Deffenbaugh, Bert Sturgis, Bob Davis, Delmar Baum, Bill Brooks and Jack Calfee.

—Final First Round Standings—

	Points
Dept. 80	40½
Standards	35½
Quality Control	29½
Foundry	26½
T-Squares	24½
Test Lab	23½
Research Engrs.	19½
Plant 4	18
Tool Room	16½
Product Engrs.	16

With Dept. 80 Employee—

Hammers Are A Hit

Wilbur Sternes pretty well hits the nail on the head when he says he has an unusual hobby.

Wilbur, who is a Plastic Dipper in Dept. 80, collects hammers and now has equipment for driving everything from a carpet tack to a railroad spike.

Included in his collection of 46 hammers, mallets and sledges is a handmade blacksmith's hammer used for shoeing horses 100 years ago. This hammer is his favorite and the one that led to his hobby, he says.

Wilbur says his mother told him that he carried this particular hammer with him all the time when he was a little boy. "Apparently this attachment for hammers stayed with me through the years. I ran across this old blacksmith's hammer a few years ago, and I cleaned it up and started collecting others," he said. Since that time, he has found a number of hammers. People have given him others, until the collection has grown to its present proportions.

A 25-year veteran with Mueller

Co., Wilbur plans to retire in about 18 months. At that time, he plans to take down a claw hammer from his collection and build a permanent display case.

Wilbur has a hammer for every job.



DECATUR SCENE

A number of Mueller Co. employees have been elected to offices in professional and fraternal organizations in Decatur.

Joe Fleckenstein, Traffic Manager, recently was installed as president of the Decatur chapter of Delta Nu Alpha, national transportation fraternity. The information and education group is made up of traffic people from Decatur industries and representatives of shipping companies.

Cost Supervisor William A. Mueller, Jr. has been elected a director of the Sangamon Valley chapter of the National Association of Accountants.

The Central Illinois Section of the American Society of Quality Control has named Carl E. Floren its secretary. Carl is Senior Project Engineer at Mueller Co.

Harold (Gene) Peer, Quality Control Technician, has been elected worshipful master of the Stephen Decatur Lodge 979, AF&AM. Harold appointed Richard A. McKinley, Finished Stock Control, chaplain.

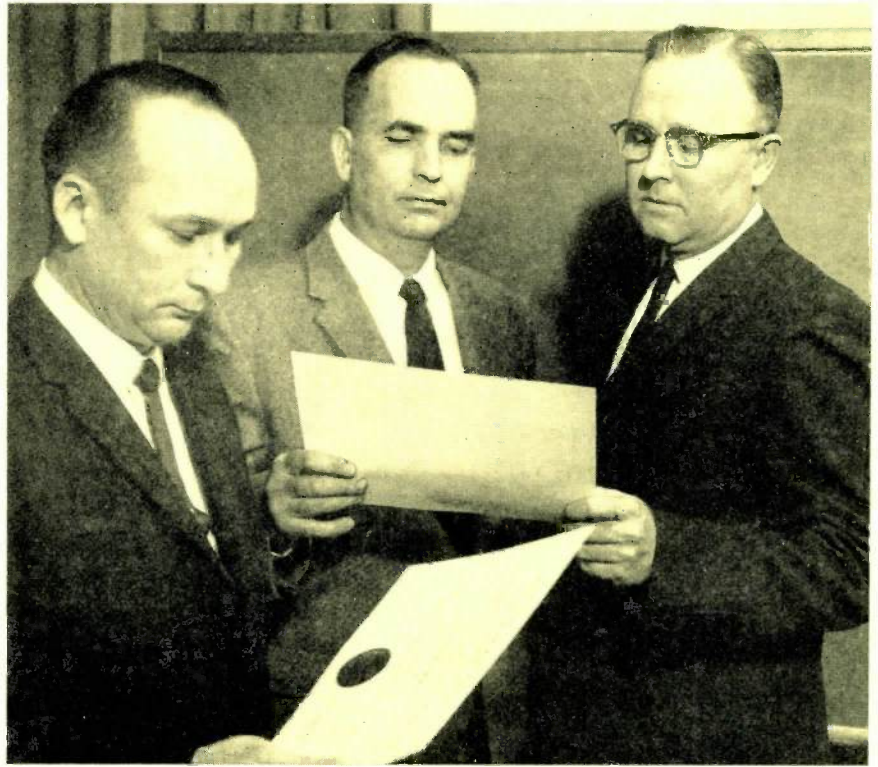
Harlan A. White, General Controller, is general campaign chairman for this year's United Fund drive in Decatur and Macon County. Harlan's organization is attempting to solicit more than \$550,000 for the 19 member agencies.

Herb Ashmore, Mueller Industrial Relations Manager, is one of 21 Decatur citizens who have been named to the new Board of Education citizens consulting committee. The committee will serve as an advisory group and serve as liaison between the Board and school district's residents.

Mueller Man wins Water Works Golf Meet

Jack L. Chilton, Mueller Co.'s Sales Representative in Georgia, took first place at the golf tournament held in conjunction with the Southeastern Section meeting of the American Water Works Association in Augusta, Ga.

Jack's medal score of 79 edged out an 81 shot by Raymond Red, superintendent for the City of



Two Mueller employees recently received community service citations from the Decatur Trades and Labor Assembly, AFL-CIO. Bill Kaigley, Electrician, looks over his certificate as Carl Alexander (center), president of the assembly, presents the award to Herb Ashmore. Herb, Industrial Relations Manager, has been active in United Fund campaigns and other projects, while Bill served as mayor of Dalton City for a number of years.

Macon, Ga. Jack's score also "edged" out those shot by two other Mueller men—Frank Kellett and Bob Ott. Apparently out of fear of reprisals, Jack chose not to divulge the scores of Frank and Bob.

Hole-In-One

John C. Dennis, Office Services Manager, recently received the golfer's thrill of a lifetime by getting a hole-in-one. John aced the 158-yard, No. 8 hole at Cresthaven Country Club. As John and his wife were leaving the green, a golfer in the group behind them also dropped his tee shot into the cup.

Fred Tratzik Among Engineers Honored

Project Engineer Fred Tratzik was among the past presidents of the Central Illinois Chapter of the Illinois Society of Professional Engineers who were honored recently by the organization for their work and leadership. Fred, a 35-year veteran with Mueller Co., headed the group in 1954.

Employee's Son Completes Ministry Study

The Rev. Charles August Rauschek has completed a course of study for the ministry in the Lutheran Church (Missouri Synod) and has accepted a call to be pastor at the First Lutheran Church in Auburn, Calif.

A 1955 graduate of Stephen Decatur High School, the Rev. Mr. Rauschek attended Concordia Junior College in Milwaukee and received his BA degree in 1960 from Concordia Senior College in Fort Wayne, Ind. The following fall he enrolled at



Rev. Rauschek

Concordia Seminary in Springfield, Ill., and received his Bachelor of Divinity degree from there this summer. He was ordained into the ministry in his home congregation, St. Paul's Lutheran Church, Decatur, in June.

Employees Host Foreign Students

The homes of two Mueller Co. employees will be the temporary homes for two foreign students during the coming school year.

The Robert C. Boyd family will give Carmen Castillo Vasquez, 18, of Trujillo, Peru, a first-hand look at American living and schooling. Bob is an assembler in Dept. 80 and has been employed at Mueller Co. since 1950.

Carmen will attend Stephen Decatur High School with Bob's daughter Marcia, who is 16 years old. The Boyds have another daughter, Nancy, who is 13. They expect to meet Carmen in Miami, Fla., in late August.

Laura-Nell Sims, Accounts Payable, and her family, have already welcomed Bjorg Rorvik, 18, of Oslo, Norway, into their home.

Bjorg will attend MacArthur High School with 16-year-old Connie Sims, and 17-year-old Jan Sims. The third Sims daughter, Pam, 20, attends Millikin University, and is also enrolled in the student nurse program at Decatur and Macon County Hospital.



Four members of the Pattern Shop team out to defend their Mueller bowling title are, from left: Dick Ferrill, Maurey Sefton, John Hackl and Max Justice.

Pattern Shop Bowlers Open Defense of Decatur Crown

The Pattern Shop bowling team began defense of its title as the Decatur league got its 36-week season underway at the Eldorado Bowl.

The Pattern Shop took over first

place with six weeks left in the season and won going away to take the Mueller Bowling League title for the second year in a row.

Paced by Max Justice, who carried a 171 average, the Pattern Shop team finished 16 points in front of the Brass Finishers. Tied for third place were the Specialty Division and the Ground Key Division.

Members of the winning Pattern Shop team are: Max Justice, Bob Henderson, John Hackl, Dick Ferrill, Skip Shinneman, Maurey Sefton and Ollie Fortschneider.

Justice, who rolled a 256, had the best single game, and Stratman had the high three-game series with a 636. Floyd Erlenbusch received the ABC award which goes to the league's most improved bowler. He added 14 pins to his average this year and finished with 169 mark.

FINAL STANDINGS

	Won	Lost
Pattern Shop	69	39
Brass Finishers	61½	46½
Specialty	60	48
Ground Key	60	48
Lub-O-Seal	57½	50½
Iron Shop	55	53
Tool Engrs.	50	58
Iron Foundry	44½	63½
Product Engrs.	44	64
Shipping Room	38½	69½



Maynard Buckta, machinist in Dept. 70, coaches in his free time, and he feels that the efforts of his team are more rewarding and inspiring than those of an athletic team. Maynard coaches a Bible quiz group at the Free Methodist Church, and recently his team won first place in competition with others from Illinois, Indiana and Kentucky at Greenville College, Greenville, Ill. Pictured from left, front row: Marcia Buckta, Cathy Evans, Karen Karnes and Byron Burge. Back row: Ruth Burge, Coach Buckta and Tom Karnes. Marcia is Maynard's daughter, and Ruth and Byron Burge are the children of Roy Burge of Dept. 80.



George Lucas, Ass't. Cost Accountant, receives congratulations from Mueller, Limited President George McAvity on completion of 35 years of service. Also on hand for the

award were, from left: Charles Browett, Robert Willson, Helen Babcock, O. C. Spears and Maureen Budgell (far right).



A total of 90 years of Mueller Co. service are represented by these three Decatur employees. With 30 years of service each are, from left: Harold Taylor, Edwin (Sparky) Jeschawitz and Francis (Pat) Fonner.



Thirty-five years of service and 35 years in the core room at Chattanooga is the record set by Core Maker Jesse C. Jones, right. Making the service award presentation is Coy E. Jones, Foundry Division General Foreman.

SERVICE AWARDS

BREA

5 Years: Frances Langford, Robert Penn, Mildred Strange, Joe Matos

25 Years: Mrs. Anna Y. Headden

30 Years: Jack Warren

CHATTANOOGA

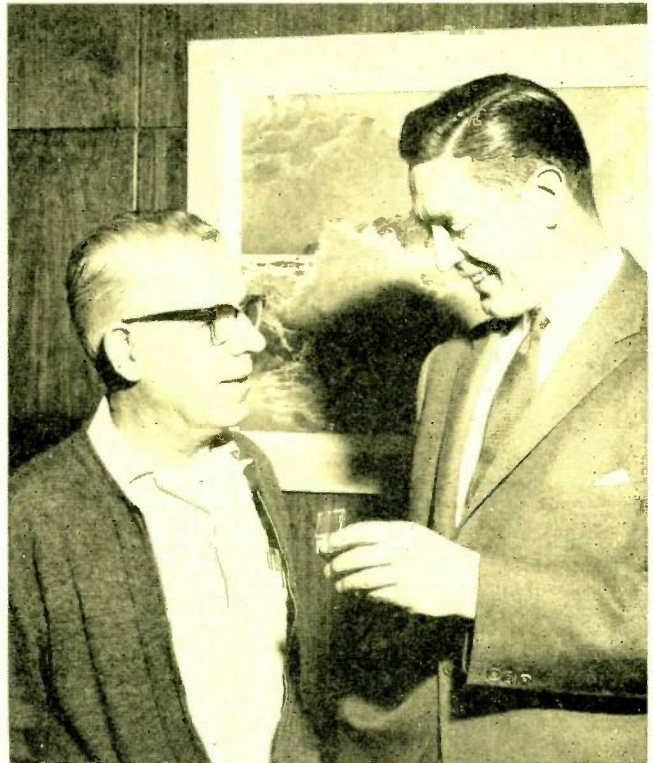
5 Years: Eldridge L. Brooks, Evelyn W. Curtis, Robert G. Ferriss, Delmer C. Garrett, Milton C. Hickey, Oscar S. Kelley, Kathryn N. Plemons, James A. Reeves, Paul Reneau, James Edward Smith, Robert Woods, Charles E. Worthington, Henry Battle, Matthew E. Battle, Robert Bonner, James B. Edwards, Major Fleming, Lawrence (Ed) Fugate, Jr., Aaron Gray, Travis C. Grayson, Verdie Lee Grundy, Shepherd Harkness, Alfonso Hewlett, George Holden, Jr., Robert Hubbard, Jr., Billy Hull, Quincy Jones, Royce C. Kinsey, Robert Lee Lawson, Will Martin, Jr., Joe E. Monger, Richard J. Raines, Roland A. Scruggs, John A. Sims, Travis J. Shropshire, Spencer A. Smith, Van Pelt Smith, Jarvis L. Strickland, William O. Walker, Charles R. York, Ronnie R. Maddox, Ronald C. Reed, Charles D. Stanfield, Jimmy P. Worley, Bennie Yearby.

10 Years: Dean Andrews, Ronald H. Bice, Lankford Carson, Ramon J. Clark, Eldridge L. Daniel, Bobby

MAIN CONNECTIONS



Ronald M. Nicolson, Vice President and General Sales Manager of Mueller, Limited, receives his 25-year service pin from Mueller President John F. Thurston, (left).



A 40-year service pin was recently awarded to Les Crooks by Mueller, Limited President George McAvity, (right). Les is foreman in the Polishing and Plating Dept.

R. Grayson, Thomas H. Hefington, Milford H. Morton, Everett W. Smith, Mary K. Smith, James E. Acklin, Herbert L. Adams, James E. Billings, Elijah Burroughs, Clarence W. Carter, Burnest S. Hays, Paul W. Hinkle, Norris Mack, Donald K. McCurry, Tommie L. Ramsey, Milton Doyle, Jim W. Jones, Roy E. Tapley.

15 Years: Jerome Hawkins, Wilbur L. Irwin, Herman Childress, Glenn Cook, David Rutledge.

25 Years: John Sparks, Roosevelt Miller

35 Years: Jesse C. Jones

45 Years: C. E. Campbell

ADAMS DIVISION

5 Years: Faith Olson, James Lynch.

10 Years: John Strong

DECATUR

5 Years: Jennie McDaniel, Kathleen Hudson, Donald L. Dagley, James (Al) Brandt, Terry McCoy,

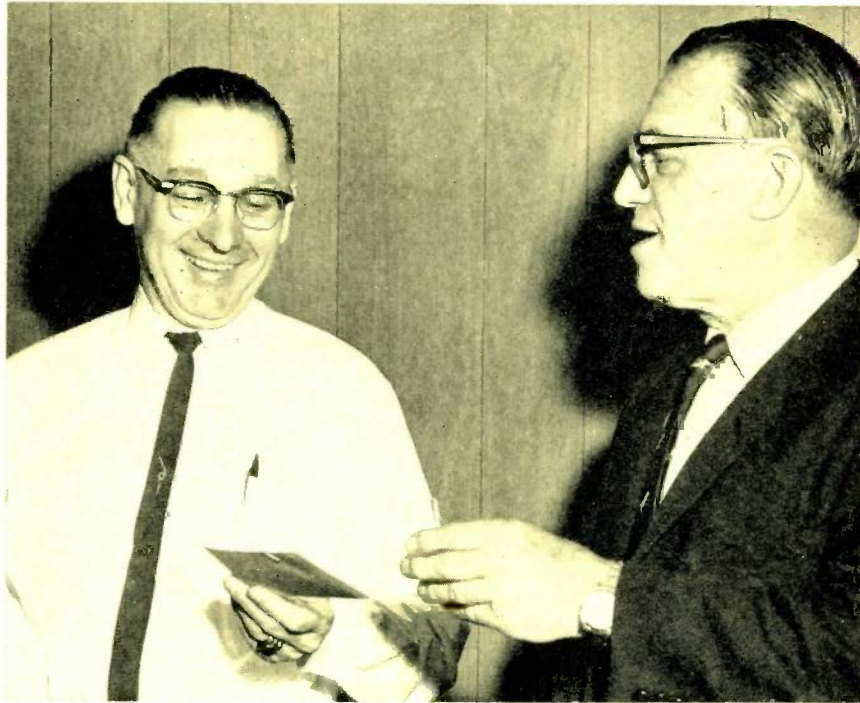
Henry H. Austin, Vern M. Beatty*, J. William Coffey*, Paul K. Clark, Jack L. Chilton*, Harry Barton, Douglas Bearup, Dale A. Seevers, Hubert Dial, Nolan Hower, James M. Jackson, Neil F. Stennett, Robert P. Fisher, Eugene R. McKinney, Leo F. Chase, Robert E. Weaver, Clyde E. Pulliam, Leonard C. Wampler.

10 Years: Walter W. Taylor, Wilbur J. Wendling, Donald L. Matthews, Phyllis Ground.



After more than 35 years of loyal service Robert Barnes retired. At the time of his retirement he was a Ground Key Tester. Gathered around Bob are his co-workers who

presented a watch to him to commemorate his retirement and years of service. On Bob's left is Dept. 8 Foreman Ed Ellenor.



A big smile from Fred Tratzik and a service award check from Frank Mueller were in evidence when this picture was taken. Fred, Project Engineer, received his award for 35 years of service.



Irmgard Moldenhauer
Decatur
35 Years

15 Years: Wilbert M. Boyer, Willie Nash, Marie West, Otto Nagler, Ray F. Foster, Corey L. Simpson, Glen M. Burrows, Harold W. Ruppert, Martin L. Puckett, George A. Roady, Earl L. Wood, John Scheen.

20 Years: Marvin G. Spitzer, Bert Brewer, Lynn D. Edwards, Margaret Carter, Olive L. Dailey, Harold K. Ashcraft, Darrell E. Smith.

25 Years: Earl R. Collins, Robert G. Schmitt.

30 Years: Harold W. Taylor, Francis M. Fonner.

35 Years: Wilfred Matthews, Fred Tratzik, Irmgard F. Moldenhauer, John E. Taylor, William B. Jones.

40 Years: Hugh Henley, Clyde D. Hester, William A. Brunner.

SARNIA

5 Years: James LaPier, James Sylvester

15 Years: Marie Demeray, Ralph Harrett.

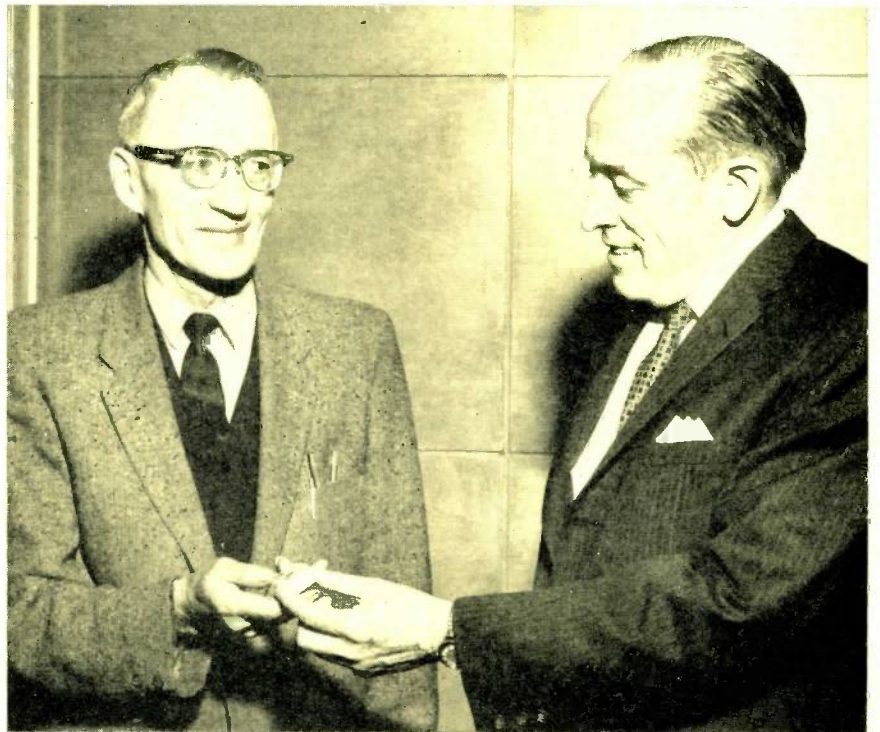
20 Years: Mike Novak, Peter Krywicki, Roy Blacklock, William Williams, Antoine Vautour.

25 Years: Ronald M. Nicolson

35 Years: George Lucas

40 Years: Les Crooks, O. Cecil Spears

More Service Awards



Thirty-five years of service have been completed by Security Guard George Lee, and to mark this occasion was the presentation of a service award by R. J. Skippon, Mueller, Limited Vice President and Manager of Engineering.



William B. (Bob) Jones
Decatur
35 Years



Forty years of Mueller, Limited service are marked by this service award to O. Cecil Spears, Cost Accountant (second from left). Looking on (from left) are: Robert Willson, Ron Nicolson and Charles Browett. Also marking his 40th year with Mueller, was a 10-day trip to Jamaica for Mr. and Mrs. Spears. Mrs. Spears refers to this vacation trip as "one of the pleasantest interludes of a lifetime."



John E. Taylor
Decatur
35 Years



Four Mueller veterans from Brea are, from left: Evelyn Miller, Brass Assembly (30 years); Anne Headden, Office (25 years); Leonard Johnson, Steel Machine Shop (25 years); and Jack Warren, Plating Dept. (30 years).

DECATUR DEATHS

We wish to extend our sympathy to families of Decatur employees or to employees who lost a member of their family during the past few weeks. Our sympathy to:

Harold McDade Jr. (Dept. 60) in the loss of his father, Harold McDade Sr.

The family of retired employee Chester Priddy

The family of James Edwards (Dept. 10)

Andy Heitman in the loss of his step-father, Edward Dollins

Les Gambree (Dept. 80) in the loss of his step-father, Ralph Gee

Elmer Lading (Dept. 80) in the loss of his father-in-law

Roy L. Dingman (Dept. 32) in the loss of his father-in-law

Betty Domick (Dept. 33) in the loss of her mother-in-law

The family of retiree Charles Meador

Charles Macklin (Dept. 80) in the loss of his father

Robert Mallow (Dept. 48) in the loss of his father, George W. Mallow

Harlow Oyler (Dept. 80) in the loss of his father, Lewis Oyler

Wayne McCoy (Dept. 50) in the loss of his father-in-law, John Burns

James Mulvaney (Dept. 80) in the loss of his mother-in-law

Dean Grant (Dept. 33) in the loss of his son, Stephen

W. H. Davidson (Dept. 70) in the loss of his mother-in-law, Mrs. Jessie Ragan

Charley Miller (Dept. 32) in the loss of his father, Elmer Miller

John Harrell Retires

John R. Harrell, a Mueller Co. employee for more than 25 years, retired recently due to ill health. Prior to going on sick leave, he was an order dispatcher in core storage at Plant 4.

Paul Shaw Retires

Paul Shaw, machine operator in Dept. 70, retired on June 16—his 65th birthday. He worked more than 18 years with Mueller Co. in Decatur.

Shift Made In Sales Territories

A shift in some sales territory boundaries has taken place following the resignation of Mueller Sales Representative Jack Leahy.

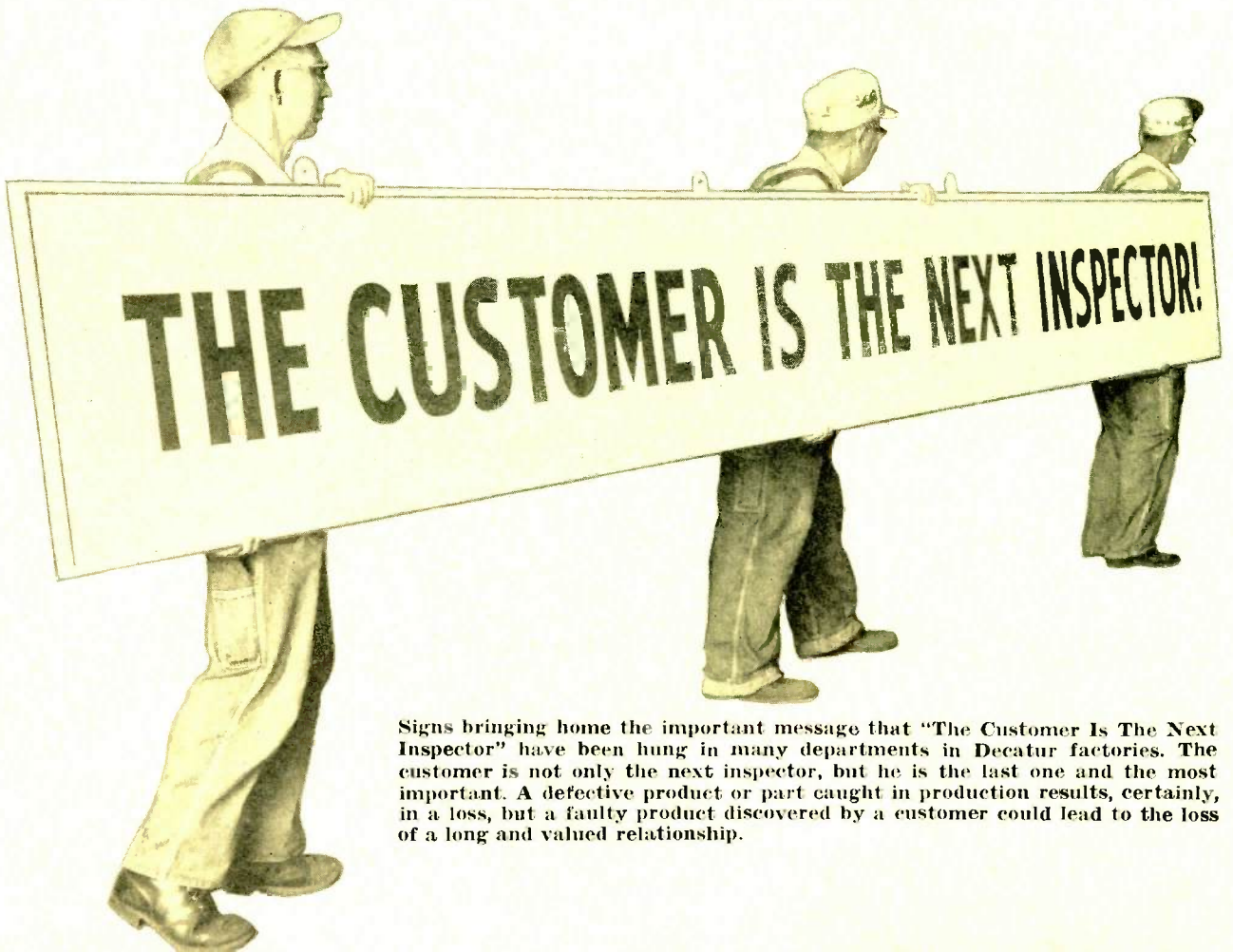
For the most part, Tom Hendrix will take over Leahy's former territory, which was roughly the southern half of Illinois. Hendrix, who has been covering the State of Missouri for about seven years, will retain the eastern half of that state. He plans to move from Jefferson City, Mo., to the St. Louis area.

The western half of Missouri will be combined with the State of Kansas territory which has been covered by Malt Sylvan. Sylvan, who has been living in Mission, Kan., has been with Mueller Co. for seven years.

Herman Niehaus, who covers Indiana for Mueller Co., and Jim McClintick, who travels the northern half of Illinois, will gain small portions of Leahy's former territory.



Boards to hold defective parts or products have been put up at various points through Plants 1 and 4 in an effort to impress upon everyone the importance of accurately and properly doing each job. Examining a defect seat ring are Larry Cripe (left) and James Van Matre, both of Dept. 103.



Signs bringing home the important message that "The Customer Is The Next Inspector" have been hung in many departments in Decatur factories. The customer is not only the next inspector, but he is the last one and the most important. A defective product or part caught in production results, certainly, in a loss, but a faulty product discovered by a customer could lead to the loss of a long and valued relationship.



the **MUELLER**® / **107** hydrant bonnet... unitized to eliminate maintenance

Permanently-Sealed . . . The Mueller/107 bonnet is sealed permanently. Quad-ring stem seal positively seals out water pressure. O-rings, in the top of the bonnet, seal moisture and dirt out . . . keep lubricant in.

No Need To Check Or Add Oil . . . The positively-sealed lubricant reservoir is factory-filled with the proper amount and type of oil. There's no loss during shipping, storage, installation and operation or if traffic damaged.

Automatically Lubricated . . . Each time the hydrant is operated, operating screw threads are lubricated. A special "Teflon"*-coated, anti-friction washer assures easy opening even after long periods of inactivity.

*DuPont registered Trademark

Requires No Field Adjustment . . . Reliable O-ring and Quad-ring seals eliminate any seal or packing gland adjustment. The main valve travel is automatically controlled in the bonnet and requires no field adjustment.

Remove As A Unit . . . The entire Mueller/107 bonnet assembly is easily removed as a unit without disturbing seals or lubricant. Simplifies repairs, eases maintenance.

Check It In The Shop . . . Any maintenance required can be completed in the convenience of the shop. Just remove and exchange bonnets in the field.

The Mueller/107 Fire Hydrant offers many more benefits and advantages . . .

See your Mueller Representative
or write direct for
Brochure 9270.

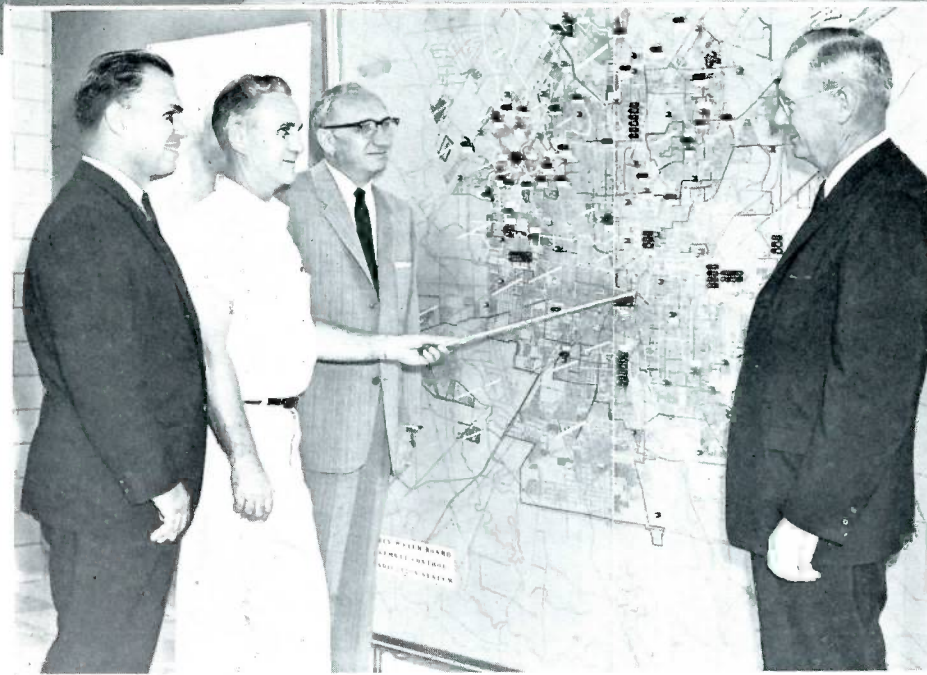


MUELLER CO.

DECATUR, ILL.

Factories at: Decatur, Chattanooga, Brea (Los Angeles)
In Canada: Mueller, Limited, Sarnia, Ontario

W-421



This Production Control Center remotely controls and supervises operations of seven major pump stations, 23 secondary pump stations and 13 elevated storage reservoirs of the San Antonio City Water Board. Looking over the electronic water system panel map are: E. O. Cain, production control supervisor (with pointer); H. H. Harlos, director of production (left); Board Chairman Harold W. Keller and Board Trustee E. R. Crumrine (right).



Heading the team responsible for the achievements at San Antonio is Bruce E. Sasse, General Manager of the City Water Board.



“A remarkable achievement.”

That is the way an independent auditor described the fiscal operations and economies of the City Water Board in San Antonio, Texas.

And “remarkable” is the term frequently applied to the record of achievement in construction, rehabilitation and expansion of the Alamo City’s water works system in recent years.

After being shackled for 30 years by a bond indenture that forced all improvements to be made out of revenues, the San Antonio system is “catching up” with the rapidly growing community’s production and distribution requirements in every area.

The public confidence and support earned by the system under General Manager Bruce E. Sasse, who assumed his post in 1960, earned for San Antonio the “Community Relations Award” of the Southwest Section of the American Water Works Assn. in 1962. The factors responsible for winning the award continue to be in evi-

dence everywhere today.

As background, it is interesting to note that San Antonio purchased its water works system from private owners in 1925 when the community’s population was about 200,000. Today, the utility is serving a population of 663,000 with 133,000 customers on its books. The indenture governing the issuance of \$7,000,000 in bonds with which the system was purchased, provided no additional bonds could be issued while any of the original bonds were outstanding. Thus, for 30 years, the San Antonio system was forced to operate out of revenue alone.

It was not until 1956 that a special law was passed by the Texas legislature making a refunding program possible. The people of San Antonio authorized \$20,885,000 in revenue bonds to rehabilitate the system. The “catching up” began.

While vast improvements have been achieved with bond funds, however, the Water Board is spending record sums out of revenues

to achieve a transformation that its customers refer to so frequently as “remarkable”.

And, while new major pumping stations, storage tanks, miles of distribution mains and new fire hydrants came into being, Manager Sasse also was concentrating on efficiency and economy in operations. Last year, (1963), for example, the water works achieved a highly favorable ratio of expenses to revenue. This operating ratio was 36.16 per cent. The direct operating expenses for the system for the year totaled \$2,756,376. Although this is an increase of \$99,680 over the preceding year, the costs have increased less than two per cent over those for 1958, while gross revenues were increased by 66 per cent.

It was the foregoing record that prompted Roy L. Pope, independent auditor of San Antonio, to describe the board’s progress as “a remarkable achievement”.

Vast expansion and improvement, coupled with greater efficien-



REmarkable REhabilitation RE: San Antonio

*Outstanding Job
Of “Catching Up”
Being Done
On Water System*

Situated on the banks of the San Antonio River in the heart of the downtown district, the City Water Board’s Market Street Pump Station and Production Control Center is a key factor in a beautification and river development program that has won wide community praise.

cy, are being recorded by San Antonio's water system while the number of its employees has been reduced from 600 persons on the payroll in 1960 to 538 in 1963. The number of employees was the lowest since 1955.

Mr. Sasse succeeded in keeping the lid on rising costs despite increases that normally would have added \$310,000 to the expense of doing business. This included a boost of \$75,000 in power costs; \$15,000 for higher postage rates, and \$220,000 for increased payroll and retirement expenses.

One key to increased efficiency and to savings is the San Antonio City Water Board's Production Control Center, located at its Market Street Pump Station site, in the heart of the downtown business district. This "nerve center" remotely controls and supervises the operation of seven major pump stations, 23 secondary pump stations, and 13 elevated storage reservoirs. In addition, 55 pressure monitoring points telemeter essential

information into the center reflecting overall operation of the system, which sprawls over a 160 square-mile area.

As a result of this automation, Manager Sasse says, 18 operating positions have been eliminated with savings in salaries of \$90,000 per year. This savings in salaries, he estimates, will pay for the Control Center in less than three years.

Another money-saving improvement for the system which was put into operation in 1963, was establishment of its Data Processing Department. Installation of an IBM 1401 Computer made it possible for the Board to convert its unit record procedures to electronic computer operation.

Citizens of San Antonio have been high in their praise of the City Water Board's contribution to a civic beautification program in connection with the new Market Street Pump Station. The station is beside the city's colorful San Antonio River, which winds through San Antonio, and the Water Board

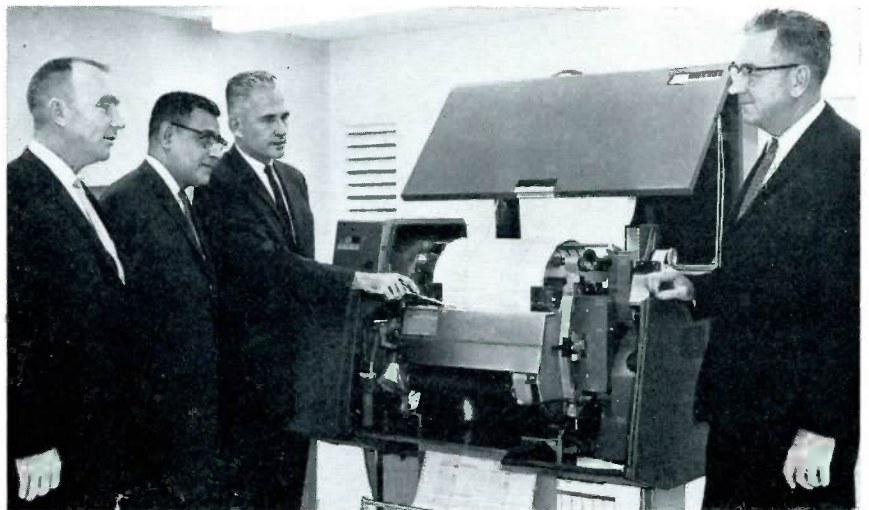
was instrumental in improvements which provided not only beautifully landscaped grounds, but also a new and fascinating entrance to the River Walk, which is a delight to tourists.

Three other major new pump stations have risen in recent years, while a fourth has been modernized. The 34th Street Pump Station and the Basin Pump Station both were completed in 1959. The former has a capacity of 33 million gallons per day and the latter 80 million gallons; Basin Station is designed for an ultimate capacity of 100 million gallons per day.

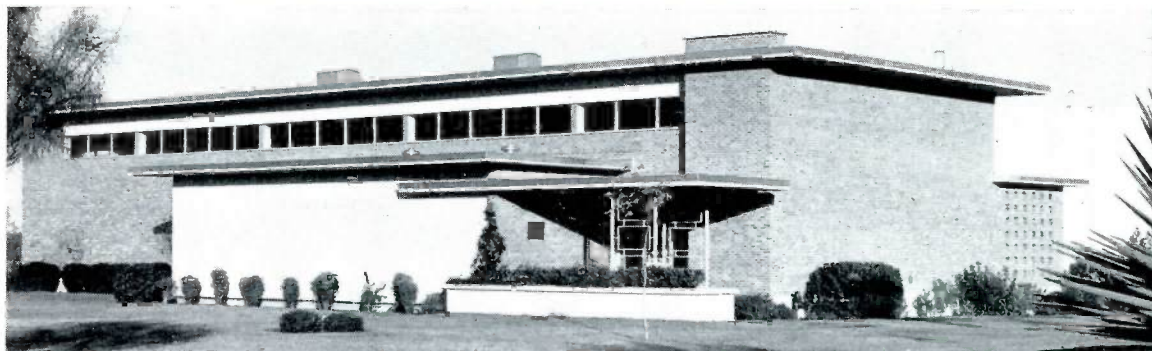
In 1961, the Board's Artesia Station No. 2, with a capacity of 36 million gallons per day, was completed and in 1963, the Mission Station was modernized, with a capacity of 44 million gallons per day.

While the new major pumping stations came into being, San Antonio's water system also constructed three 5,000,000-gallon ground storage tanks and six ele-

San Antonio's City Water Board has been a leader in adopting modern computer techniques, providing not only for the Board's own needs, but providing data processing services for city and county governmental agencies. Robert M. Hackett, the Board's Tabulation Director (pointing to machine), describes some operations to Comptroller John Shields, Board Trustee Alfred G. Vazquez and former Chairman Edward H. Austin (left to right).



This attractive building houses San Antonio's 80 million gallon per day Basin Pump Station, completed in 1959. This is the Board's largest primary pump station, and designed for an ultimate capacity of 100 million gallons per day.



vated storage tanks, four of them 1,500,000 gallons each, one of 1,000,000 gallons and one of 250,000 gallons. Also constructed was a 2,300,000 gallon contour tank.

Other improvements keep pace with the more spectacular achievements. Last year the San Antonio system improved service for its 132,181 customers with the installation of 72 miles of new mains, bringing the total in use up to 1,718 miles. The city added 233 new fire hydrants, making a total in use of 6,279. Service was provided for 2,880 new customers.

During the year, the system spent a total of \$4,386,719 for capital improvements, of which \$1,433,471 was spent to replace corroded and inadequate mains and worn-out services and meters. The latter represented an all-time high expenditure for these purposes.

The year's pumpage of 32½ billion gallons set another all-time record.

A corollary to continuing and impressive improvements in San Antonio's water system has been a

steady improvement also in the public image of the utility.

A case in point is the widely-acclaimed "hardship case" program under which low-income families formerly without water service have obtained extensions to their homes on an "easy payment plan". In 1957, the Water Board had on file a listing of 1,527 family units, consisting of 6,100 people in 71 areas, without water service.

These families obtained their water from neighbors' homes and shallow wells, or bought it by the barrel from "water peddlers". They had no plumbing. Pit privies abounded, a menace to public health and a blight on the city.

At the end of 1963, the San Antonio system had extended service into 74 areas for 1,380 family units, or approximately 5,520 people. And, the system's officials are deeply impressed with the prompt and conscientious manner in which the low-income families affected respond to their financial obligations.

Manager Sasse maintains close communication with all media of

information, is personally available at all times for interviews by members of the press—and he makes it a cardinal rule to provide reporters with "all of the facts", even when it may appear that the facts are likely to be painful.

It is easy to understand, therefore, why the City Water Board in 1962, was rated first in community relations among water utilities in the four-state southwest area by the Southwest Section of the American Water Works Association. The states cover Texas, Oklahoma, Arkansas and Louisiana.

Sasse summed up the San Antonio system's philosophy in his annual report this year when he said:

"We are confident that the prevailing dedicated spirit of service and of loyalty by our employees will continue to win the commendation and support of our citizen-customers."

It is a philosophy combining two basic elements—consideration for and recognition of the employees, coupled with primary concern for top service for the customers.



Improvements at the newly-modernized 44 million gallon per day Mission Pumping Station are described to Mayor

W. W. McAllister (center) by Mr. Sasse (right) and Robert P. Van Dyke, Operations Branch Manager.



A. O. (Tony) Yonker (second from left) retired recently after 50 years of service with Mueller Co. Looking over the diamond-studded service pin are, from left: Frank Kellett, Mr. Yonker, Charles O. Bafford, and Del Parks. Mr. Bafford will succeed Mr. Yonker as Manager of the Decatur Sales Office.

50-Year Record Speaks for Itself And Tony Yonker

*Decatur Sales
Office Manager
Retires After
Half Century*

"The record speaks for itself" is an oft-used term that is bandied about during an election year with little significance attached to it.

But when an employee reaches his 50th year of service with a company, little more needs to be said because the record **does** say plenty.

A. O. (Tony) Yonker, Manager of Mueller Co.'s Decatur Sales Office, reached this 50-year plateau on Sept. 2 and also retired on that date.

This service record tells a lot in hours and days, but it doesn't reveal the company loyalty that Tony held, or begin to describe the warm friendships that he has developed by phone and mail with Mueller customers all over the United States.

Tony started with Mueller Co. as a messenger in 1914, and then spent a number of years as head of the Billing Dept., but most of his time has been spent in the Sales Office. Even though he has been in Sales for years, he hasn't had the pleasure of calling on customers and meeting them personally. His has been a long-distance

relationship. His primary duties have dealt with orders which were taken by phone or received by mail. Since 1957 when he became Decatur Sales Office Manager, it has been his responsibility to see that proper service and attention are given each order.

Tony was born at Blue Mound, Ill., some 13 miles from Decatur. During his school days, he got his start in the business world as a carrier boy for the Decatur Review. That was the only position he ever held other than with Mueller Co.

After graduation from high school, it was natural that he turned to H. Mueller Manufacturing Co. for employment. His father, the late Samuel Melvin Yonker was with the company for 43 years. A brother, G. J. Yonker, retired after 32 years with the company, and another brother and two sisters worked a number of years for Mueller Co. Tony's mother was the only member of the immediate family who didn't work at Mueller Co.

A number of Tony's nephews and cousins still work at Mueller Co. Joe Yonker, Tony's nephew and

Warehouse and Shipping Foreman, has been with Mueller for 13 years.

Tony, who is quiet and modest, is in excellent health and doesn't look much older than his years of service. He and his wife, Mary, plan to remain living in Decatur; in the next months, however, they expect to put a lot of miles on their brand new automobile.

A number of men working in the Mueller factory have exceeded 50 years of service with Mueller Co., but Tony shares this distinction with only one other man in the office, J. W. (Bill) Simpson. Mr. Simpson, executive vice president of Mueller, died in 1951 during his 51st year of service.

Dan R. Gannon, Vice President and General Sales Manager, says of Tony: "He has always wanted to stay in the background of any activity, but his devotion and sincerity to Mueller Co. and its customers have always made him stand out. It is hard for someone of this calibre to go unnoticed, even though his modesty and seeming shyness temper his warm personality. How do you describe the loyalty and hard-work of a man who has given 50 years of life to his job? Tony's record speaks for itself and him."

Charles O. Bafford, Sales Service Manager—Water since 1960, has been named to succeed Tony Yonker as Manager of Decatur Sales Office.

Charley started working at Mueller Co. in 1950 as a machine operator in the factory. A few months later he was transferred to the Production Control Dept. in the Brass Foundry. In June of 1951, he went into the sales office and advanced through various positions.

Born on a farm near Decatur, he attended Blue Mound High School and later attended Millikin University. Charley has sons 14 and 9, and a daughter who is 15 years old. Charley, Mrs. Bafford, and their 3 children now live in Blue Mound. He is a member of the school board and has been treasurer of his church for 11 years.

He is also active in Shrine and Masonic organizations in Decatur, Blue Mound and Springfield.



Willie Water greets children on "Water Supply Day" at the World's Fair.

WATER SUPPLY DAY

Willie Water Drop(s) In At World's Fair

Willing Water, the lively water drop who symbolizes public water services in more than a thousand communities all over the world, is celebrating his 21st birthday this year. The celebration was officially opened when a real live "Willie" put in the first of a series of personal appearances at the New York World's Fair, shaking hands with youngsters and passing out copies of the American Water Works Association picture book, "The Story of Water Supply."

Designated "Water Supply Day at the Fair," the ceremonies included a birthday luncheon at the Terrace Club in the New York Port Authority heliport to thank Fair officials for their help in spreading the water supply story. They permitted AWWA to place its "Water—At Your Service" emblems on the 120 public drinking fountains on the fair grounds and post 52 placards explaining the significance of the emblem.

In attendance at the birthday

luncheon were some 46 well-wishers, including a number of officials of AWWA, and of the New York Department of Water Supply, Gas and Electricity.

In the keynote address, AWWA President E. Jerry Allen emphasized the importance of telling the public how it can get better water service. Pointing out that Willing Water is a symbol, not just of water, but also of water service, he said that service in many communities could be improved if the public demanded it and were willing to pay for it. He urged the widespread adoption of Willing Water as a symbol of service provided by water utilities.

Final highlight of the luncheon was the presentation of a plaque, from New York's Mayor Robert Wagner, to Edward J. Clark, chief water engineer with the New York Water Department, commemorating his 46 years of service to the city. Water Commissioner Armand D'Angelo made the presentation.

Strictly Off the Record

Boss: "You are twenty minutes late again. Don't you know what time we start around here in this factory?"

New employee: "No, sir. They're always at it when I get here."

* * *

Instructor: "Now remember, men, figures don't lie. Now for an example, if 12 men could build a house in one day, one man could build the same house in 12 days. Do you understand? Harold, give me an example."

Harold: "You mean if one boat could cross the ocean in six days, six boats could cross the ocean in one day."

* * *

Judge: "Couldn't this have been settled out of court?"

Defendent: "Yer honor, this is exactly what we wuz thryin' to do when a couple av policemen butted in an shtopped the fight."

* * *

Little Betty was crying bitterly. Her mother asked what was the matter. "My new shoes hurt me."

"Well, no wonder. You have them on the wrong feet," replied her mother.

She kept on crying and refused to be comforted. "I haven't any other feet," she cried.

* * *

First secretary: "Have you and your boss ever had any difference of opinion?"

Second Secretary: "Yes, but he doesn't know it."

* * *

A surgeon, an architect, and a politician were arguing as to whose profession was the oldest.

Said the physician: "Eve was made from Adam's rib, and that surely was a surgical operation."

"Maybe," said the architect, "but prior to that, order was created out of chaos, and that was an architectural job."

"But," interrupted the politician, "somebody created the chaos first."

Three matronly ghosts at a cocktail party in the spirit world were gassing angrily in a corner. The object of their angry stares was a very curvesome young spook surrounded by a cluster of male spooks. The matrons sizzled as their spectral husbands leaned closer to the young ghost's obvious charms. Finally, one could no longer contain herself.

"Hmmmmmf," she sniffed, "her and her contour sheet."

* * *

Definition of a bird that got caught in the lawnmower: Shredded tweet!

* * *

Two drunks built a tremendous bonfire alongside the Washington Monument in Washington, D.C. Another drunk wobbled by and commented sadly, "You'll never get it off the ground."

As the bank robbers were finishing their job, they noticed the gagged cashier giving expression that indicated a desire to talk. When they removed the gag he pleaded:

"Take the books, too; I'm \$3,000 short."

* * *

Modern idea of roughing it: Driving a car with standard shift.

* * *

Secretary, handing letter to boss: "This one's marked 'Personal' but it isn't, really."

* * *

When you get something for a song, watch out for the accompanist.

* * *

Prof: "How many zones has the Earth?"

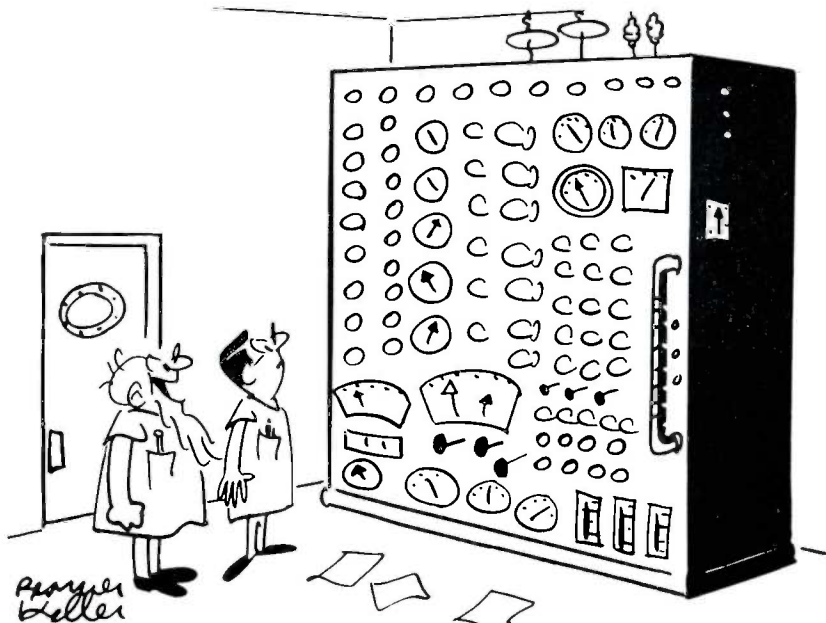
Student: "Five."

Prof: "Correct. Name them."

Student: "Temperate zone, in-temperate, canal, no-parking and o."

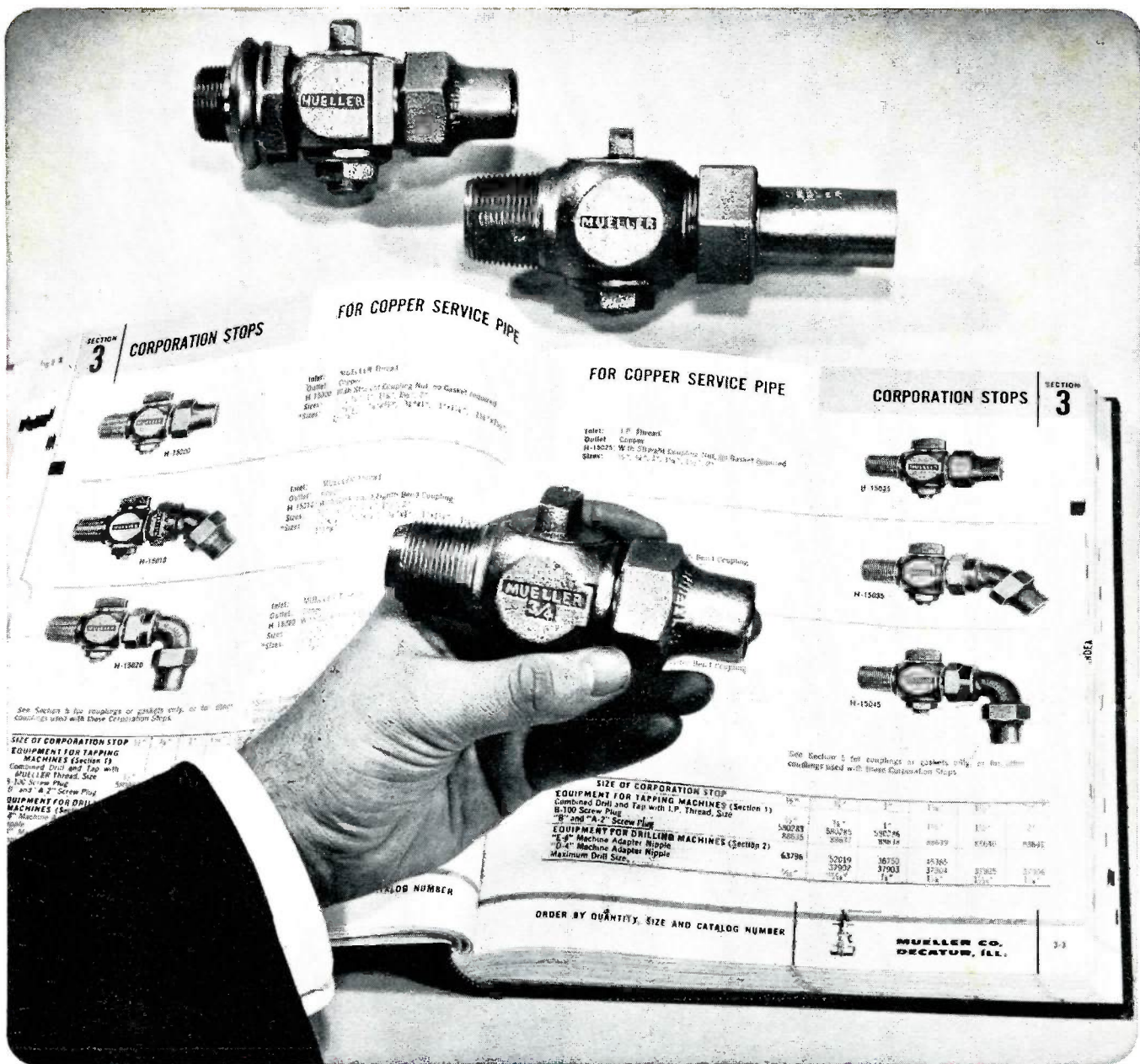
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What will today's younger generation be able to tell their children they had to do without?



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"Around here we refer to it as 'Old Fat Head'"



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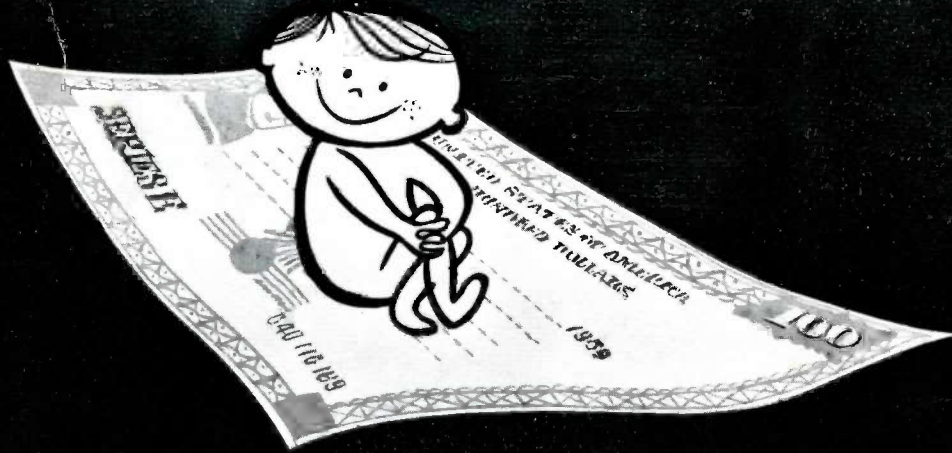
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