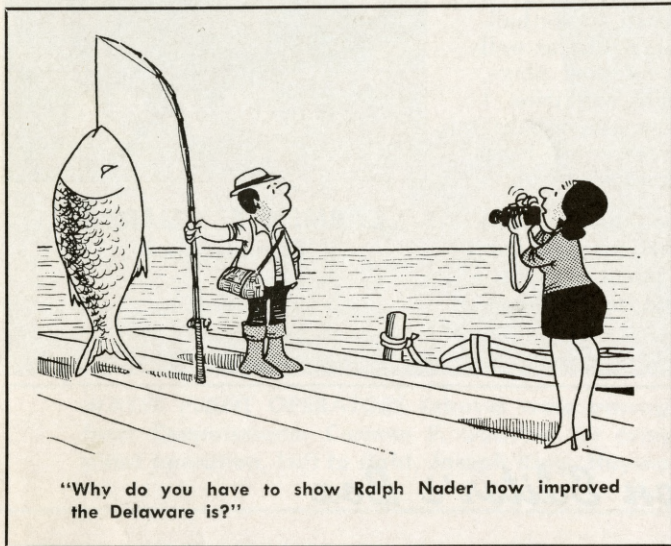


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PHILADELPHIA, PA.

SPRING, 1972



"Why do you have to show Ralph Nader how improved the Delaware is?"

LAB BOAT AUTOMATES TESTS CUTTING HOURS OF OVERTIME



The City's stream research gets a little better every year.

The Water Department has put on board its cabin cruiser a new device that tests a continuous stream of river water for a variety of chemical constituents, as the boat speeds up and down the Delaware River estuary.

Water is pumped to the analyzer, which quickly performs tests that would take hours in plant laboratories. The analyzer checks for such things as nitrites, nitrates, ammonia, total phosphates, orthophosphates, and chlorides.

Formerly, samples for such tests were collected from the river and taken to the plant laboratories, where several chemists worked on them... often on overtime. Now one man can take continuous readings in the small laboratory on board the boat.

To Use Computer

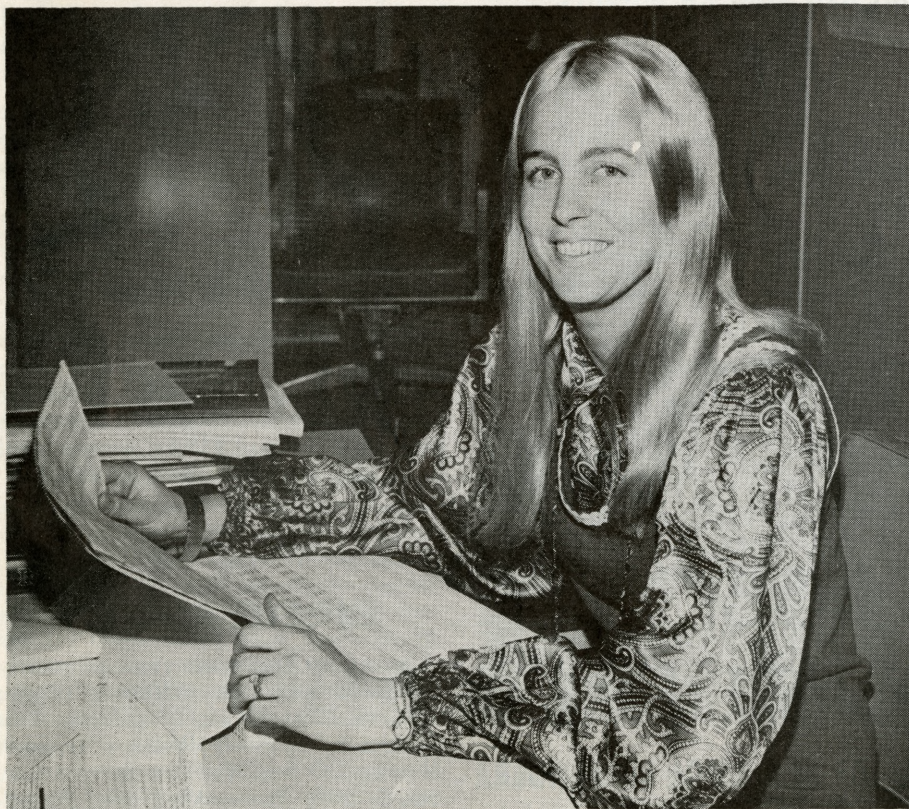
Water to the analyzer will be filtered continuously, and (later this year) a digital printer will be added to convert readings into a form suitable for use on a minicomputer.

Costing \$27,000 with the digital printer, the auto-analyzer is, in the language of the engineers, a "modular instrument" that includes a sampler, pump, analytical module, colorimeter, and chart recorder. It will repay its cost within two years through savings on laboratory time.

Auto-analyzers have been used successfully in the medical field to provide fast checks on the condition of patients. The use of this instrument on a stream by the Water Department represents the first such use by any water utility. Best of all, it means that much more of the river can be covered on the weekly run, and the samples will always be fresh.

Handling the new device will be

(Continued on Page 12)



WHO IS THE FAIREST ENGINEER OF ALL? MARCIA WAGNER FOR ONE. SEE STORY ON PAGE 10.

WATER DEPARTMENT NEWS

Published Quarterly by

THE WATER DEPARTMENT

Mayor, Frank L. Rizzo

Managing Director, Hillel S. Levinson

Commissioner, Carmen F. Guarino

Editor.....Raymond J. Harris

Staff

Features.....Rosemary Rosenthal

Recreation.....Edward Boyajian

A TRUE STORY

The Social Security Administration reports that a disabled applicant came into the office to file a disability claim. The applicant slumped in his chair and appeared to have no energy. When one of the office's miniskirted lovelies walked by, however, he brightened and sat up, his eyes following her.

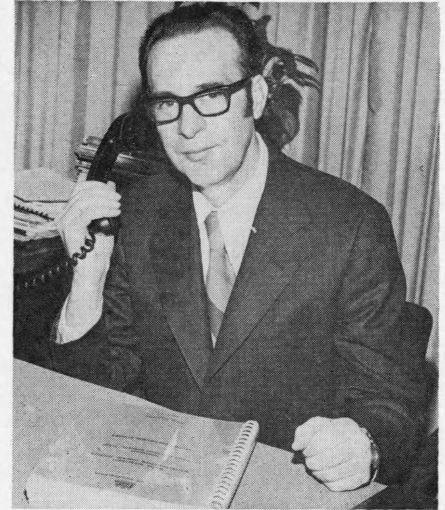
"You don't seem to be in such bad shape," remarked the interviewer, chuckling.

"Yes, I am," replied the applicant. "Everything about me is disabled except my eyes."

All of us in management have a strong interest in the Water Department Employees' Recreation Association. This is because WDERA has done so much to provide wholesome recreation for so many employees. WDERA has been in the recreation business, indeed, since 1958—longer than any comparable group in City Hall.

Thanks to its efforts, our employees have had the opportunity to engage in organized bowling, softball, basketball, golf, chess, and other activities, as well as to take advantage of new plays, special tours, etc. These activities, I believe, have helped to make healthy, well adjusted employees, and have brightened the outlook of all of us.

This fine organization has my full support. I hope that many more employees will find it possible to participate in WDERA and its programs.



CARMEN F. GUARINO
Commissioner

From the Recreation Editor's Box

WDERA LICKS INFLATION

A \$25 U.S. Savings Bond recently went to a lucky member of the Water Department Employees' Recreation Association. The bond, awarded in a special drawing, was one of the many sweeteners offered to all persons who signed up as 1972 members of the association.

The WDERA works for its 630 members in many ways. The association uses its buying power to purchase blocks of tickets at group discounts for sporting events, movies, shows, etc., and then passes the savings on to its membership. It also sponsors Water Department teams for inter-departmental sports. Teams fielded in recent years include bowling, softball, and basketball.

Membership in the association is still a bargain. Despite inflation, the one dollar membership fee hasn't changed in years. Each dollar provides the money to fund the various programs and to award trophies and prizes.

If you are interested in joining, contact your nearest WDERA representative, or Jim Thompson, membership chairman (ext. 27-223). It is never too late.

YOU CAN FISH OR BICYCLE . . .

If you were wise enough to join the Water Department Employees' Recreation Association, you can look forward to some colorful events in the coming months. Among the galas planned are—

- An Ella Fitzgerald-Buddy Rich banquet at the Latin Casino
- A trip to Longwood Gardens
- A deep sea fishing trip
- A Water Department bicycle trip
- An intra-city chess tournament

So far this year, WDERA has made discount tickets available for a U.S.S.R. vs. U.S.A. hockey match, a Penguins vs. Flyers hockey game, a New York vs. 76ers basketball game, a night at Liberty Bell Park, and the opening night at the Phillies game.

Watch your bulletin board for further details.

... OR JOIN YMCA THRU WDERA

Another bonus awaits you if you join the Water Department Employees' Recreation Association. WDERA has

arranged for you to obtain full-membership privileges in the Central Y.M.C.A., 1421 Arch Street, at a 20% discount.

Full privilege entitles you to visit the "Y" at your leisure and you are *not* required to attend in a group. To obtain this privilege, at least 10 or more WDERA members must apply for "Y" membership at the same time. If you are interested, call Ed Boyajian, ext. 3884.

With the discount, the membership cost for you at the "Y" will be only: \$40 for men aged 18 to 24, and \$56 for men aged 25 or over; \$32 for women aged 18 to 24, and \$36 for women aged 25 or over. You save from \$8 to \$14.

EMPLOYEE DISCOUNTS

As a City employee, you can qualify for discounts at the following places: Hertz Rent-A-Car, LO 8-8360; Avis Rent-A-Car, SA 4-9600; Sheraton Hotels, LO 8-3300; Tire Service Co., CE 2-7100; Ponnock's Toys, WA 3-1310; Parsons Sports Center, WA 5-7557. To get all the facts, call the listed numbers.

LOU NEMETH CRAWLED UNDER WIRE WITH SON IN ARMS 15 YEARS AGO

Some people think that patriotism is old fashioned, but if you had been denied your basic freedoms, you would really appreciate this country and not be ashamed to admit it. Such a person is Louis Nemeth, the director of our Engineering Computer Center.

Mr. Nemeth was born in Hungary and graduated from a military college as a civil engineer. He had a good position as an engineer and earned points in his job for efficiency, but because his father was a doctor and they did not lean to the "left", Lou was made to sweep floors in the factory. They listened to the Voice of America and the Voice of Free Europe, believed what they heard, knew they could never embrace Communism, and so left their homeland.

Mr. Nemeth was now married and had a two and one-half year old son, and Mrs. Nemeth was pregnant. But they joined thousands of other Hungarians in their escape to freedom. The group just ahead of theirs was shot at by the Russians; so they waited for the following day to make their escape. Their son was fast asleep in Lou's arms when he raised the barbed wire fence for Mrs. Nemeth to crawl under and she then did the same for Lou and the baby. Their second son was born in the U.S.A.

Met Vice President

They wound up in a refugee camp in December, 1956, in Salzburg, with 38,000 other people. Most of these refugees had trades and were highly skilled and had lots of self-respect. President Eisenhower at this time sent his Vice President, Richard Nixon, on a fact finding mission to this camp to see if conditions were really as stated. Lou was one of six persons called forward to meet the Vice President and his advisors and talk to his interpreters, and then they were all handed booklets to enable them to learn to speak English and find out about the United States.

The refugees left for Munich, where they emplaned for McGuire Air Field in New Jersey. The plane trip took 24 hours, and within that 24-hour period Lou learned all the words, questions and answers in the 24-page booklet. They stayed at Camp Kilmer until they were sponsored by a Protestant minister in Phoenixville, who turned out to have been a classmate of Lou's brother in Hungary.



LOUIS NEMETH

Lou had studied German, French and Latin, but was not sure of his English. So when he applied for and got his job with the Phoenix Steel Corporation, he and his interviewer spoke German. Later he worked with the Chester Valley Engineers in Paoli as a consultant on highway and housing development design. He took computer courses with I.B.M., and in 1961 he worked with Levitt and Sons in Willingboro on their engineering program. In eight months, he became head of this program, designing and implementing various applications of it including water distribution systems analysis. In 1965 he worked for RCA in its data processing office at Cherry Hill, and he entered the Water Department in August, 1967.

In the past 15 years, Lou has visited Hungary twice and, although he found conditions better today than when he left, it is still much better to be in America. He has traveled through 25 states and Puerto Rico.

Lou's in-laws came to visit him and his family after seven years, and they also liked America and have also become United States citizens. Although Lou will eat most anything, he enjoys his mother-in-law's old fashioned Hungarian cooking best. They all like Philadelphia a lot.

Rosemary Rosenthal

DO YOU REMEMBER?

You have been with the Water Department a long time if you remember when:

Samuel Schwartz was editor of the Water Department News... and our Customer Service Section was on the 10th floor of City Hall Annex... Evelyn Blumenthal Caruso was Mr. Palmer's secretary... Joe Radziul was still single... Rose Sheridan was Capt. DeCharms' secretary... you didn't have to sign in and out on attendance sheets... there was no Social Security for City employees... no one had electric typewriters... there was no Water and Sewer Systems Planning Unit.

There was a sofa in the Ladies' Room... a Drexel co-op student became Miss United Fund Torch of Greater Philadelphia and wore Mrs. Samuel Baxter's mink cape for the big parade... there was no air conditioning and if the temperature and humidity reached a certain level, you got sent home early... there were no computers to handle mailing of Annual Reports... Rosemary Rosenthal didn't even have one grandchild.

Sam Wagner eloped... Violet Jones and Hazel Griffin were co-workers in Fiscal... John Coscia was a co-op student... the City had its own automatic telephone system... former Mayor Richardson Dilworth made a "secret" visit to the Water Department, but the grapevine was working and when Mr. Dilworth went into the various offices everyone was hard at work.

Rosemary Rosenthal

"Dad, I read about a man who was a 'financial genius.' What does that mean?"

"It means that he could earn money faster than his family could spend it."

* * *

Unimportance is the sensation that comes when you make a mistake and nobody notices it.

WATCH YOUR LANGUAGE

Words don't always mean what they seem to mean. One of our field divisions reported recently: "We pumped down the sewer and ratted it. The sewer is bleeding off slowly."

Ratted it? At first, we were touched by the thoughtfulness of our men in providing a nice sewer home for some poor rats. And we cried over the old sewer bleeding to death. Then we realized that our emotions were a bit misplaced.

MAHONEY AND ROSS LEAD LIST AS 20 EMPLOYEES "MOVE UP"

With quiet competence, two young engineers are going from better to better. William Mahoney and William Ross, Jr., are among a number of employees recently promoted.

Mahoney, who hails from Worcester, Mass., came into the department as a graduate engineer in 1968, fresh out of Villanova University. He moved rapidly through the civil engineering grades and now is a construction engineer I, responsible for several construction projects at the Northeast Plant. He is currently studying for a master's degree in soil mechanics at Villanova.

Ross, who has stepped up from civil engineer I to II, is that rare breed . . . a specialist in the administrative aspects of engineering. Since 1967, he has been making cost studies, collecting technical data, writing reports, and doing other staff jobs for Water Pollution Control. He has a B.S. in civil engineering (administration) from the University of Delaware.

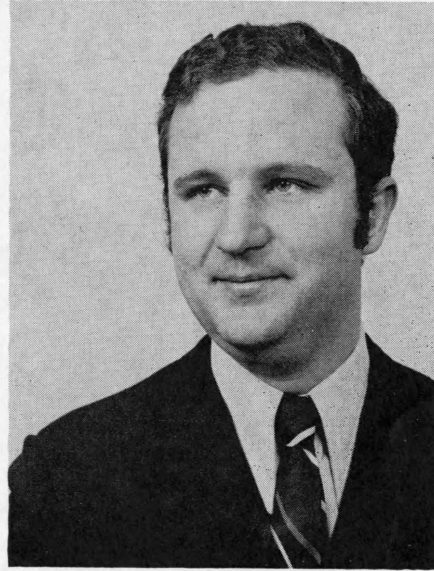
George Bryant has been looking into our customers' problems since 1964, and doing a good job. Now he will have more problems to solve, as he jumps from field representative to field representative supervisor in Customer Service.

Beale Promoted

More problems, in the form of broken water mains and open fire hydrants, will also be coming the way of Melvin T. Beale, who has been promoted from assistant supervisor to



TIMOTHY WATERMAN
Accountant II



WILLIAM MAHONEY
Construction Engineer I

supervisor. Beale joined Water Distribution back in 1962 after a stint with the Philadelphia Gas Works. Foreman Joseph Lunari has taken over Beale's assistant supervisor job.

If anyone knows dollar figures, it must be Timothy Waterman, who has counted them up for the Police, City Controller, Collections and Water Departments since 1962. Waterman entered the Water Department's Fiscal Division with a promotion to accountant II in January. He has a B.S. in accounting from La Salle College.

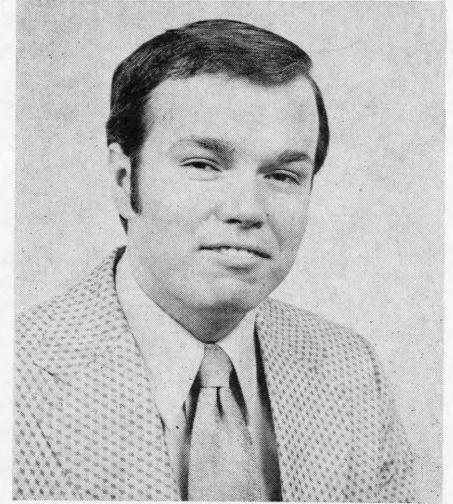
Other recent promotions include:

Design: Paul Jasiewicz, from graduate engineer to electrical engineer I, and Benjamin S. Corsino, from engineering aide II to III.

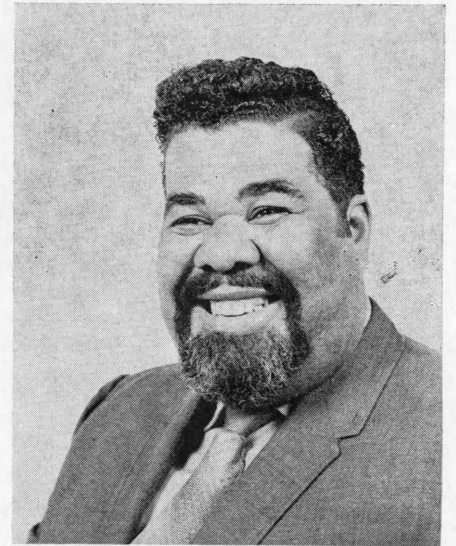
Sewer Inlet Cleaning: Benjamin Johnson, from hospital aide to laborer; Walter L. Martin, from laborer to equipment operator II; and Roosevelt Justice, from laborer to sewer maintenance inspector.

Sewer Maintenance: John Ross, from semi-skilled laborer to equipment operator I; Arthur De Santis, Jr., from brick mason to sewer maintenance foreman I; Wilbert Taylor, from equipment operator I to sewer maintenance foreman I; and Robert L. Stevens, from semi-skilled laborer to equipment operator I.

Water Pumping: Joseph R. Mercurio, from trades helper to pumping station operator; Thomas E. Plowden and



WILLIAM ROSS, JR.
Civil Engineer II



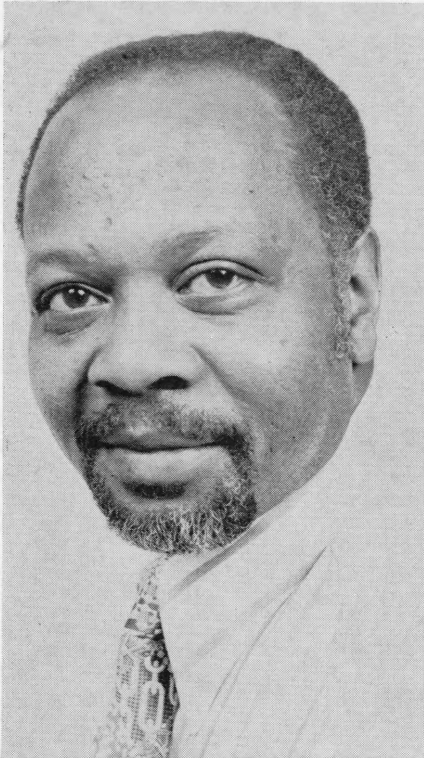
MELVIN T. BEALE
Distribution Supervisor

James Gregg, from laborer to mechanic helper; and George Myers from filter plant mechanic-electrician to pumping station engineer.

Filter Plants: John Walsh, David Reynolds, and William Richards, from trainee to treatment plant operator I; James W. Burton, from laborer to equipment operator I; and Elwood Unruh, from gardener to gardening supervisor.

Other: William J. Williams, from trades helper to meter repairman I at the Meter Shop; Dawson Dow, from laborer to equipment operator I, Distribution; James Coyle, from chemist I to II, Materials Testing Laboratory; and John Ferrero, from public works inspector I to construction project technician II, Construction.

PROMOTED



GEORGE BRYANT
Field Supervisor



JOSEPH LUNARI
Ass't. Distribution Supervisor

Rip Van Winkle is the only man who became famous while asleep.

* * *

Dog tired at night? Maybe you growl too much during the day!



"Hey, Ethel. Tell the girls at the office about it later. First, call the President."

**WHITE IS IN, BLUE IS OUT
AS VEHICLES CHANGE COLOR**

If white stands for purity, Water Department vehicles will soon reflect the purity of the city's water. Within a few months, the department will receive delivery of nearly 70 white trucks and passenger cars.

Blue and black will be gradually phased out as vehicle colors, with the purchase of additional white vehicles in coming years. The only exceptions to the new policy will be specialized equipment such as compressors, or trucks that weigh 30,000 lbs. or more. These must be painted yellow for safety.

SAIL TO BERMUDA

For a week of fun in the sun, you can sail on the "Amerikanis" to Bermuda July 29, under a package deal made by the Philadelphia Municipal Employees' Recreation Council. Return will be August 5.

The voyage offers luxurious staterooms with private baths, fine meals, stage shows, dancing, cinema, swimming and other sports. A motor coach connects with the New York pier.

Prices range from \$275 to \$445 per person, based on double occupancy, plus \$15 port tax. For reservations, call William Allen, MU 6-5081, or Mrs. Vivian J. Gordon, MU 6-5284.

**YOU CAN REDUCE
PAY WITHHOLDING**

If you find more money being withheld from your salary this year, you should blame it in part on the Federal Revenue Act of 1971. This act, according to the Internal Revenue Service, "corrects much of the under-withholding experienced by many employees last year."

In the case of some employees, however, the act has the effect of causing too much money to be withheld for federal tax. This is particularly true of single persons and persons representing one-job families.

If you are one of these, the Internal Revenue Service suggests that you "take a new look" at your income tax withholding. To prevent too much tax from being withheld, you may ask for a "special withholding allowance". This is an exemption in addition to the regular personal exemption (or exemptions) which you normally claim on your W-4 form.

You can take this "special withholding allowance" if you are (1) single, with one job, or (2) married, with a non-working spouse.

For Those Who Itemize

If you itemize large deductions on your return, there is another type of allowance designed for you. You may, depending on the size of your salary and deductions, take a varying number of extra withholding allowances—up to six or more. These can be taken regardless of your marital status or the number of jobs in your family.

Information sheets explaining the allowances, and forms to apply for them, will be obtained for you by your supervisor if you so request. Supervisors may obtain this material from John LaRosa, assistant chief, Fiscal Division, ext. 3820.

P.S.—To keep the Internal Revenue Service happy, claim only those allowances to which you are entitled.

If at first you don't succeed, try something easier.

BIENNIAL REPORT AVAILABLE

You can still get a copy of the Water Department's attractive biennial report for 1969-71. Telephone the Commissioner's Office, ext. 3803, or stop at the reception room, 1160, M.S.B.

BIG WATER TUNNEL TO SUPPLY QUEEN LANE PLANT

Train Takes Editor Thru First Water Tunnel To Be Built Since 1904

The little diesel train that ran along tiny rails inside the tunnel was fun to ride. City Photographer Ralph Carollo and I clung precariously to a back step and handle bars as the engine pushed a train of cars up a gradual slope from the Schuylkill River toward the Queen Lane Plant.

We had entered the first new tunnel for water supply to be built by the City since 1904.

The 6,000-ft. tunnel, which will bring river water to the plant, rises only 200 feet in more than a mile. On the way, however, the engine swings around right-angled curves and splashes through a constant flow of ground water that has seeped through the overlying rock. The smooth bore of the tunnel and the endless string of lights make it look vaguely like the Lincoln Tunnel running into New York.

This impression is heightened by the ear splitting noise of pumps and the shouts of workers that roar down the tunnel like traffic. And the little train rattles as it goes.

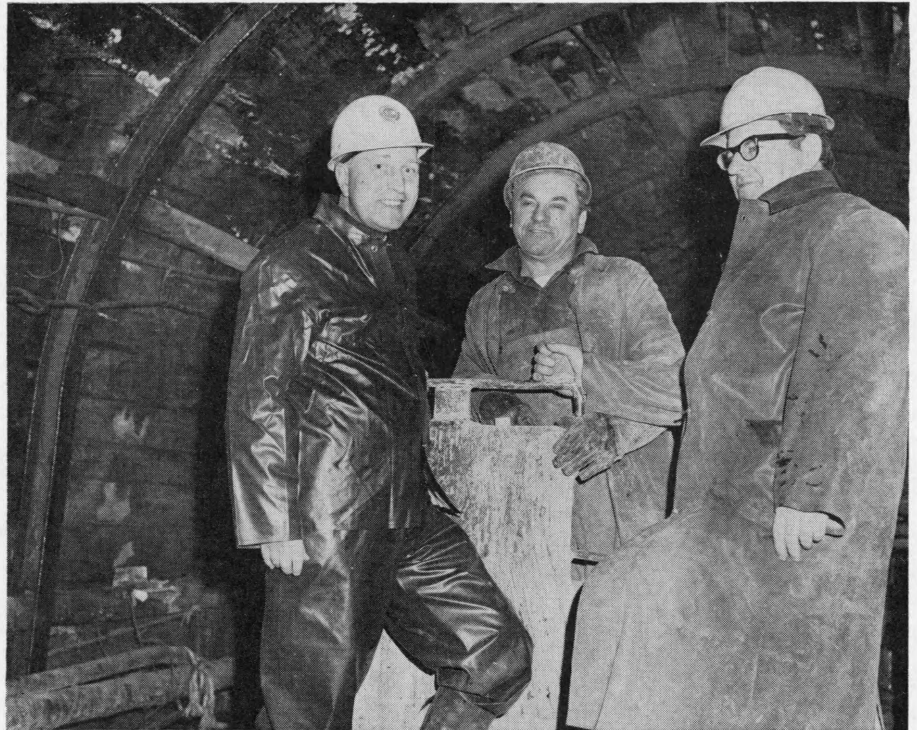
Civil Engineer Richard Wade and his assistant, Inspector William Sproat, had offered us a ride. They had thoughtfully provided us with rain gear, hard hats and boots.

Cavernous Rock

The gear came in handy. When the train halted midway through the tunnel, we slogged through muddy water, climbed over a netting of steel rods, walked along single rods like high-wire performers, and scrambled through a long steel-plated form. Here I bumped my head repeatedly against a steel beam and found out what hard hats are for.

At the tunnel mid-point, the magnitude of the work was truly impressive. We had come through 3,000 feet of cavernous rock, but in the distance stretched another 3,000 feet of finished tube—gleaming white concrete, 18 inches thick and with an inside diameter of eight feet.

"We are pouring concrete for 80 feet of tube a day," said Dick Wade, and he pointed to the fresh concrete behind the liner plates. The concrete had been pumped down a pipe from the surface 80 feet above, and it had spread



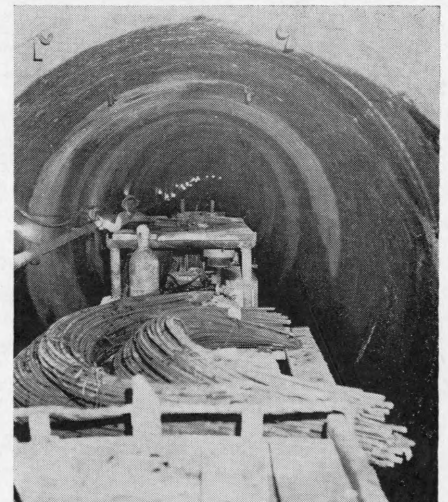
EDITOR RAY HARRIS (left) and Engineer Richard Wade (right) mount a small diesel train for a half-mile ride through the unconsolidated portion of the new water tunnel. The train (photo below) moves through smoothly bored rock, cut by a rock boring machine.

between the liner plates and the tunnel wall, covering completely the intermediate reinforcing rods. When the concrete hardened, the metal plates would be jacked up in 20 or 30 foot sections and moved forward for the next pour. Pipes from the surface were spaced 600 feet apart.

"The tube has to be very strong," said Bill Sproat, noting the thickness of the concrete. "It will carry up to 150 million gallons of water a day." He added that the tube will replace three existing supply mains, two of which will be reconditioned and retained on stand-by.

Ralph shot his pictures, and we made our way back to the engine, wire-walking along the sides, past workers and cars. As we clung to the engine rolling back through the tunnel, I noticed again the smooth roundness of the bare rock. "The rock is so smoothly bored," said Dick Wade, "that many people mistake it for the finished concrete."

This remarkable job had been done by a rock boring machine, equipped with carbon steel cutters, and guided



by a laser beam to keep it on course. "It beats drilling and blasting," noted Dick. "The tunnel was driven under residential neighborhoods, but the residents never knew we were there."

The machine had also done the job three to five times faster.

(Continued on Page 7)

NEW WATER TUNNEL

(Continued from Page 6)

As we rolled toward the entrance, I noted rails and ties piled on the cars behind us, and I knew that the days of this little railroad were numbered. As fast as concrete is poured, rails and ties are taken up and the engine moves them out of the tunnel.

For our readers who want free rail passes, it may already be too late. By the time the *News* comes out, nearly all the concrete tube will have been poured, and there will not be much trackage left. By late May, the railroad will be out of business.

Privileged visitors will still be able to see the finished tube, for the tube must be linked to a pipeline loop which will be built at the riverside pumping station (Ridge Avenue and School House Lane). The loop will consist of 1,160 feet of 5-ft. steel pipe, three huge valve chambers, and two magnetic flowmeters that will measure water flow rates and transmit them to a panel in the station.

By early next year, the loop and tube will be carrying river water, destined (after treatment) for several hundred thousand of our customers. Happily, Uncle Sam is expected to pay 44% of the \$3.4 million construction cost.

THE EDITOR

An optimist is a person who knows exactly how sad a place the world can be. The pessimist is the one who is forever finding out.



CONCRETE FEED pipe is lowered into a hole by workmen. The pipe will carry concrete to the new tunnel 80 feet below the street, spreading the pour behind liner plates to form a new tube. Inspector William Sproat leans against liner plates in foreground of photo below. The plates can be moved in 20 or 30-ft. sections from spot to spot for the pour.

DEPARTMENT HIRES 27 JOB APPLICANTS

The *News* cordially welcomes 27 new employees who have been appointed to permanent positions in the department since December 1. These appointments, all under civil service, fill vacancies created by resignations and retirements.

The new employees include:

Graduate engineers: William J. Marazzo and Richard A. DiMenna, assigned to Water Pollution Control Administration; and Robert C. Shipman, Water and Sewer Systems Planning.

Engineering aides I: James H. Jones, Design, and Kenneth K. Staib, Water and Sewer Systems Planning.

Chemists I: Walter J. Malik, Jr., W.P.C. Administration; and Alfred F. D'Alessandro, Northeast Plant.

Office personnel: Maria C. Arcidiacono, clerk-typist II, Fiscal; Marjorie Jo West, clerk I, I.B.M.; and Margie G. Abner, keypunch operator I, I.B.M.

Laborers: William O. Thomas, Leander W. Wilson, Albert A. Brown, and Larry A. Lyde, assigned to Sewer Inlet Cleaning; Theodore Hayman and Robert L. Bryant, Water Distribution; and John R. Moore, Sewer Maintenance.

Treatment plant operators I: William B. Timoney and Charles J. Murphy, Southeast Plant.

Security officers I: Zenas Mitchell and Roland Thompson, Building Maintenance.

Other: Raymond Chalmers, mechanical parts inspector, Central Stores; John Saunders, trades helper, Belmont Plant; Charles Cooper, sewer crawler, Sewer Maintenance; Nicholas M. Klimo, water meter repairman I, Meter Shop; James E. Sydnor, custodial worker I, and Eugene M. Gasiewski, chemical technician, Torresdale Plant.

OUR GLOBAL TRAVELERS

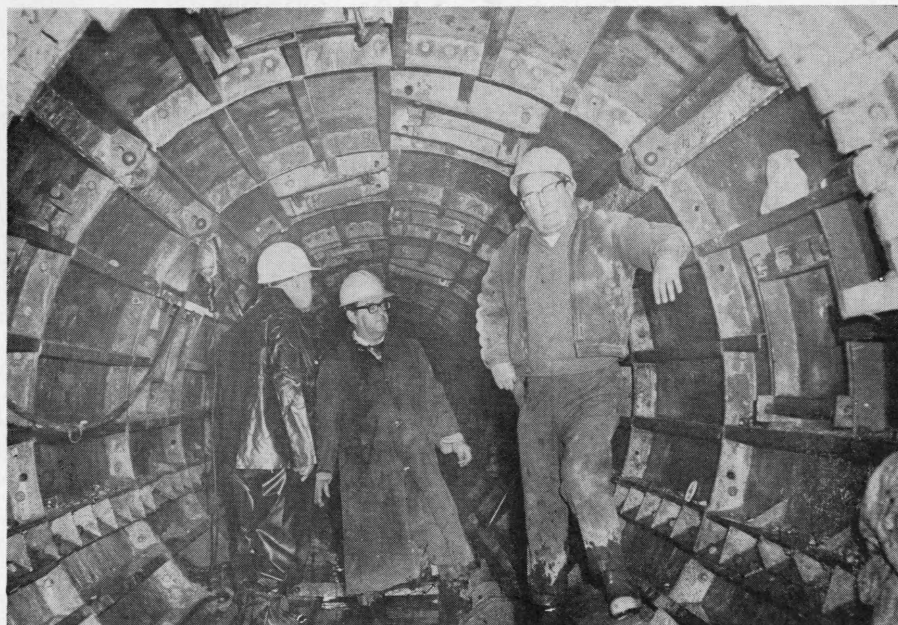
Rosemary Rosenthal has just returned from two weeks in Israel. Rosemary is secretary to Assistant Chief Engineer John Briggs.

Eager travelers in the month of May will include—

Samuel J. Schwartz, assistant to the Commissioner, off for a two weeks' tour of Italy from the Dolomites and Venice to Naples and Rome.

Rosella Sheridan, secretary to the Commissioner, off for a week at fashionable Marbella on Spain's southern coast.

Editor Ray Harris, off to visit Troy and other ancient ruins of Turkey.





FIND OLDEST WOODEN PIPE

The wooden water main at left is one of the oldest ever discovered in Philadelphia. Found on the east side of City Hall last year, it probably dates back to 1799. It undoubtedly carried water directly from the City's first steam pumping station at Penn Square to residences on East Market Street.

At 14 feet, the pipe at left is also one of the longest segments ever uncovered. It is now in the custody of Tom Beudet (left), chief of Building Maintenance.

Wooden mains were gradually replaced by cast iron mains between 1817 and 1850.

PLANTS HAVE RECORD FLOWS

The department's "water pollution control" plants were busier than ever in calendar 1971. They received and treated a daily average of 438.5 million gallons of wastewater—the greatest amount in their history.

The annual daily average has been climbing steadily for a number of years. Society is producing more wastes, and, of course, more water is also being used, the surplus of which flows back into the sewers.

Output of the water treatment plants in calendar 1971 was 361.4 million gallons daily.

JIM DILLON NEGOTIATES PACTS AND RIDES THE RAILS TO RELAX

By Rosemary Rosenthal

Forty-five years! No one else presently working for the Water Department has been a City employee longer than James Dillon, civil engineer II, of Projects Control.

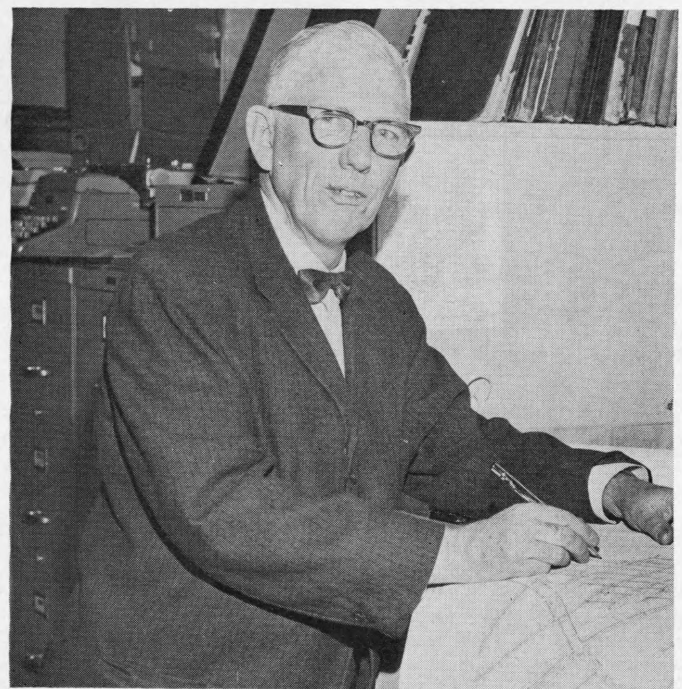
Mr. Dillon received his diploma from the Evening School of Drexel Institute in 1929 and also studied City planning and other municipal subjects at the University of Pennsylvania. He started out with the old Department of Public Works in 1925, serving in various capacities until 1944. In the latter year, the newly formed City Planning Commission hired him as its fourth employee. He was a junior land planner, later was assistant land planner, and stayed in that position until 1952, when he became senior planner for the Bucks County Planning Commission.

After 15 months with the Bucks County Commission, Jim was invited to work for the Water Department. In April, 1953, he started with the Design Branch under Alexander Maltman, until former Commissioner Samuel S. Baxter and retired Chief of Projects Control James Brady heard of his work and transferred him to Projects Control.

Jim now negotiates and writes engineering agreements between the City and utilities, railroads, public agencies and private property owners. He also prepares ordinances for City Council and must consult with the Law Department and other City agencies. This is highly responsible work, requiring much knowledge of all phases of engineering, as well as legal information.

Possibly the legal side of it is not too far afield for Jim, as his father was an attorney. Jim was born in West Philadelphia, where he lived until he was 13 years old when his parents moved to his present home in Germantown. He lives with his sister, a school teacher, and both Jim and his sister have a great love of good music—possibly because their late mother was a piano teacher. Jim attends many concerts at the Academy of Music, with his favorites being Gilbert and Sullivan operettas.

Jim Dillon's first love is railroading—a love he acquired as a tiny tot when he became fascinated with anything that ran on tracks. He has traveled to all the 48 states, Canada and Mexico by rail; he entered Juarez, Mexico, by



JAMES DILLON

taking a trolley from El Paso, Texas, for five cents. His favorite railroad trip was across Canada from Montreal to Vancouver, through the Canadian Rockies.

Jim was vice president for five years of the National Railway Historical Society (10,000 members), and he belongs to other railway societies, engineering societies, the Steamship Historical Society of America, the Franklin Institute, and the Catholic Philopatrian Institute. Because he is so widely traveled and involved in so many organizations, he can walk down the main street of any large city in the country and be stopped by friends, especially in Chicago. Jim has a large collection of technical books and model railroad equipment, and he has model trains up all year around at home, not just for Christmas.

When Jim is ready to retire, he feels he will go to Florida for the warmer climate and to indulge in all the good foods he is used to eating. We are not anxious to see Jim retire, but we certainly hope he can continue to enjoy his hobby and all his other activities.

“PLAY IT SAFE TO SURVIVE” IS MESSAGE OF NEW SAFETY REPORT

If you commit an unsafe act, the odds are high that you will be injured. The statistical proof of this is in Safety Officer John T. Cappio's annual report for 1971.

In 1971, there were 335 injuries to Water Department employees resulting from their own carelessness. Such carelessness included inattention, improper lifting or handling, failure to use safety equipment, and unsafe methods or use of tools.

Hazardous conditions, over which the employee may have had little control, caused only 34 injuries, and even a majority of the 199 motor vehicle accidents occurred on clear and dry days. At least 106 of the latter could have been prevented, however, through greater care.

The price of unsafe acts was physical suffering. Back injuries were most common, but employees suffered injuries to literally every other part of the body as well. Heads, eyes, faces, necks, chests, abdomens, shoulders, arms, wrists, thumbs, knees, feet, and toes were just some of the injured parts.

Most of these injuries could have been avoided, according to Cappio, through alertness, attention to rules, and use of safety equipment such as hard hats, goggles, protective shoes and gloves.

Happily, there was a brighter side to the picture. Safe Driver Awards were earned by 288 employees who drove



Water Department vehicles for an entire year without a preventable accident. Many employees too were wise enough to avoid injury at work by following the best safety practice. Safety First, they felt, was better than a life insurance policy.

There are bigger things than money.
For instance: bills!

* * *

A halo has to slip only a few inches to become a noose.

SEVEN EMPLOYEES GET CERTIFICATES FROM PGTI

The City's "college after hours" is still popular with Water Department employees. Seven more employees recently received certificates for completion of courses in the Philadelphia Government Training Institute.

Among them was fiscal clerk Albert Raiguel, who added three more certificates to the growing pile which he has built over the years. His latest certificates were for speed reading, data processing, and Spanish conversation.

Other certificate winners were: Irene Bracey, graph analysis and interpretation; Greta M. Ellis, speed reading and preparation for civil service tests; and Charlie L. Carter, Steven R. Davis, John A. McGonigle, and David L. Ransome, basic supervision. Davis also completed speed reading.



STUDIOUS EMPLOYEES receive certificates from Commissioner Carmen F. Guarino (right) for the completion of courses in the Philadelphia Government Training Institute. From left, Charlie L. Carter, Albert Raiguel, and Steven R. Davis.

MARCIA WAGNER AND NANCE KUNZ BRING AN IMPROVED LOOK TO CITY ENGINEERING

By Rosemary Rosenthal

It has been estimated that the Water Department has about 150 engineers. And who is the fairest of them all? Engineers fair? Seeing is believing, and we saw and we believe that Mrs. Nance D. Kunz and Mrs. Marcia M. Wagner are not only the fairest of all our engineers but also very attractive and brilliant.

Nance received her bachelor of engineering degree from Villanova University in May, 1969, and a master of science degree from the University of Virginia in August, 1970—both degrees being in chemical engineering. She is presently going to Drexel night school for her Ph. D. in chemical engineering, and in fact she was the first girl to graduate in that major from Villanova. She was also the first American girl graduate at the U. of Virginia to get her master's in chemical engineering.

Nance Was Sorority Head

Nance seems to have been a very busy girl, as she was on the Yearbook staff, on the student court, president

and vice president of her sorority, and also made the college "Who's Who". She also served as a graduate research assistant and at present is an advisor for her college sorority, Alpha Xi Delta, a national group. She is also a member of three top professional engineering societies and the Philadelphia Engineers' Club.

Nance is the only daughter in a family of four, and also the only one in the family except her father (an engineer with Philco) who is technically oriented. Her husband graduated from St. Joseph's College, and during the basketball season things can get pretty tense, because St. Joseph and Villanova are arch rivals.

Nance, who works in the Water Treatment headquarters at Queen Lane, recently earned a plant operator's certificate (see photo below). She and her husband, a government employee, have bought a large sailboat, and they are looking forward to many happy summer days in Sea Isle City, where her parents have a home. And if



MARCIA WAGNER, engineer, matches wits with a digital computer in the Computer Unit.

the sea is too rough for sailing, it will be "tennis anyone?", another hobby of Nance's. And if it rains, it will be cooking and trying out new recipes.

Marcia Was Honor Student

On the other hand, Marcia Wagner, who was appointed a graduate engineer in the Water Treatment Section in July, 1969, was promoted to sanitary engineer I in the Engineering Computer Section in March, 1971, and she is now waiting for her sanitary engineering II appointment.

Marcia received her bachelor of science degree from Bucknell University, where she studied chemical engineering and made the dean's honor list. It was also at Bucknell that Marcia met her husband and, amidst much confusion and consternation, got married the day before graduation. Her husband graduated from Penn's Wharton School of Finance and is presently employed by Lybrand, Ross Bros. & Montgomery; he is also studying for his C.P.A. test in May. When Marcia started her chemical engineering course at Bucknell, there were 65 men enrolled and Marcia, but only Marcia and 13 men completed the course.

Marcia is especially proud of her parents' ambition. Her father, a Post Office employee, is now going to college for his degree in accounting and loves it, while her mother graduated last June from Penn State Extension College with a B.A. in sociology and

(Continued on page 11)



NANCE KUNZ is the first woman to earn a certificate to operate the City's water plants. She receives the document from Commissioner Carmen F. Guarino (left).



WATER PLANT OPERATORS (above) were among 13 Water Department employees to receive certificates from Commissioner Carmen F. Guarino for completing a State-approved course in water treatment and plant operation. Left to right, Joseph King, Haywood Austin, Guarino, Melvin Beale and John Walsh.

KATHLEEN SMITH WEDS

Kathleen Smith, who has been a secretary in W.P.C.D. Administration for the last three years, married Charles Carter on April 29. Mr. Carter is an employee of a local electronics firm.

The newlyweds left for Nassau in the Bahamas to spend their honeymoon.

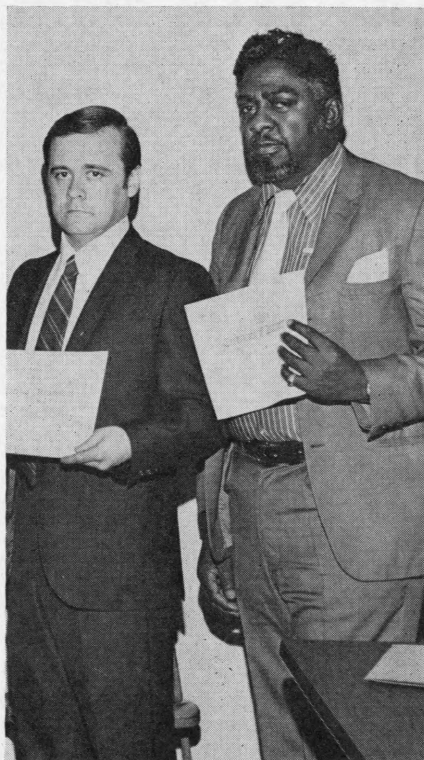
WOMAN ENGINEERS

(Continued from Page 10)

psychology. Her mother now works for the State Mental Hospital in Harrisburg.

Marcia and her husband are both from different small towns near Harrisburg, and like living in Philadelphia very much. They enjoy all the museums, theaters, and sporting events, because Marcia, having been on her college basketball team and liking swimming and other athletics, enjoys being a spectator too. Her hobby is piano playing. Right now though, the Wagners are both looking forward to the new house they just bought in Green Hill Farms, off City Line Avenue.

It's a real pleasure having girls like Marcia and Nance as co-workers.



REWARD for 10-weeks' study is held by David Reynolds (left) and Holman Jefferson, who finished plant operator's course.

PLANT OPERATORS FINISH STATE APPROVED COURSE

Commissioner Carmen F. Guarino presented "certificates of attainment" to 13 Water Operations employees recently.

The certificates, issued by the Public Service Institute of the State Department of Education, were awarded for the completion of a basic course in water treatment and plant operations. Spread over 10 weeks, the 30-hour course also drew 16 water works operators from neighboring communities to the Queen Lane Plant where it was given.

Employees who received certificates were Haywood Austin, Melvin Beale, Lander Coleman, Steven Davis, Herbert Heller, Holman Jefferson, Joseph King, Mrs. Nance Kunz, Donald Totter, David Reynolds, William Richards, Wilbert Terry, and John Walsh.

Coordinated by Schuylkill Treatment Superintendent Hugh Hanson, the course was jointly sponsored by the Pennsylvania Water Works Association and the Pennsylvania Section of the American Water Works Association.



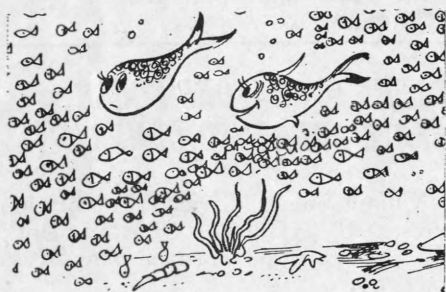
MICHAEL MCGUIRE studies a new auto-analyzer, which detects and measures chemical constituents of river water. The water is collected into tiny flasks of a sampler (left) and then is pumped to a module unit (middle). A colorimeter measures the constituents by intensity of color and the chart (photo at right) records the results.



LAB BOAT AUTOMATES

(Continued from Page 1)

Sanitary Engineer Michael McGuire and Chemist Edward Weber, both specially trained for the task. Captain Joseph Ritter is the skipper of the speedy cruiser, Aquadelphia. The boat is operated by the Research and Development Section.



"Just wait until the Environmental Protection Agency hears about this population explosion."

G. K. Chesterton, speaking on the emancipation of women, noted: Twenty million young women rose to their feet with the cry, "We will not be dictated to!"—and proceeded to become stenographers.

DEAR READER!

The *News* is your newspaper. You can help make it interesting by sending in news stories, feature articles, jokes, personal notes, photographs, cartoons, etc. Send such material to the editor, Ray Harris, 1180 M.S.B.

There may be a writer hidden in you, waiting to be found. Don't deprive us of your talent.

JOSEPH LENZI ENDS 43 YEARS EIGHTEEN EMPLOYEES RETIRE

Joseph Lenzi was hired by the City on November 27, 1928 and stayed on the job for 43 years. An emergency foreman in Water Distribution, he is one of 18 employees who recently retired.

Wrestling with broken water mains, flooded cellars, and other emergencies, Mr. Lenzi, 66, was a familiar figure in the field. The *News* wishes him many happy retirement years.

The same wish is extended to the other employees:

Charles Bonner, 64, a civil engineer I in the Construction Branch, with 33 years of service.

Edward Migliaccio, 65, an engineering aide III, with 29 years, and Joseph J. Remer, 64, a civil engineer I, with 26 years . . . both in the Design Branch.

William Schweikert, 62, a filter plant mechanic II, Queen Lane Plant, and John Hevener, 62, a field representative, Customer Service . . . both with 25 years of service.

Joseph Conroy, 65, a public works inspector II, Construction, and Stanley Missimer, 65, an equipment operator I, Distribution, both with over 23 years;

Arthur Williams, 61, a mechanic helper, Torresdale Plant, and William Thompson, 67, an automotive mechanic, Automotive Maintenance, both with 21 years; James J. Dugan, 56, an instrument technician I, Load Control, with 20 years.

Selim Benavides, 66, a semi-skilled laborer, Plant Maintenance, and Edward Ashton, 65, a custodial worker I, Queen Lane Plant, both with 18 years; Arthur L. Reeves, 57, a laborer at Queen Lane Plant, with 17 years; Michael Kilson, 69, an electrician, Torresdale Plant, and Sam Russell, 67, laborer at Central Stores, both with 12 years; John A. Kane, 66, a treatment plant operator I, Belmont Plant, and John Kulick, 62, a pumping station engineer, Delaware Pumps, both with 11 years.

Although it is impossible to keep track of all retired Water Department employees now living, it is probable that they represent several thousand years of engineering, technical, administrative, trade, and other experience. Their legacy of service will not soon be forgotten.