

AMCHEM PRODUCTS, Inc.

THE
AMCHEM
NEWS

Vol. 10 No. 3

December, 1967

National Coil Coaters Elect John Geyer Vice President

John H. Geyer, Assistant General Manager MCD, was elected Vice President of the National Coil Coaters Association at its semi-annual meeting held in the Sheraton Hotel, Chicago, Ill., November 1, 1967. There were 450 members in attendance from the 135 firms which constitute the Association's membership. He had been Treasurer of NCCA for the past two years.

This is the first time in the history of the Association that a member of a supplier company has been honored by an executive officership.



JOHN GEYER

Geyer is a charter member of the NCCA, which was founded in 1962, and has been instrumental in establishing many of the Association's policies, including the formation of the Technical Committee. He has chaired a number of its national meetings and has delivered several papers at these conferences.

Geyer joined Amchem in December 1950. He became manager of MCD Development in 1953. In November 1959, he was appointed Technical Assistant to President Romig, and in August, 1966, was promoted to his present position.

Geyer, a native of Philadelphia, is a 1949 graduate metallurgical engineer of Lehigh University. During World War II he was an aerographer in the U.S. Navy and served in combat.

Geyer is married and lives with his wife and three children in Richboro, Pa.

On Our Cover

Facade of new building (No. 18B) which, with building 18A, completes Amchem's administrative office complex. Building 18A was erected in 1957. A description of the new edifice and the plans of the first and second floors appear on pages 4 and 5.

THE AMCHEM NEWS

Vol. 10, No. 3 December, 1967

Published by
AMCHEM PRODUCTS, Inc.

Ambler, Pennsylvania

in the Interest of AMCHEM
Employees and Their Families

William A. Drislane, Editor-Art Director



Message from the Chairman

This has been a year during which the National Economy slowed appreciably from its 1965 and 1966 pace, thus creating an adverse effect on many businesses, including the chemical business where the average profits were 9.6% lower for the first nine months than for the same period in 1966. As employees of Amchem we are all interested in knowing how this condition affects on our own Company.

Overall, our earnings for 1967 will be greater than for 1966. This is because our diversified interests give us a broad market for our products. Sales of our Metalworking Chemicals Division fell off with a consequent drop in earnings which were more than compensated for by the increased sales and earnings of our Agricultural Chemicals Division.

During the past season, even though we had increased our production of Amiben, our chief Agricultural chemical product, once more we were sold out before the season was over.

To obviate this condition in the future, we have entered into a contract with one of the major basic chemical manufacturers to supply us with a sufficient quantity of basic ingredients to insure a substantial increase in the production of Amiben in 1968. Also, we are building a new plant to manufacture Amiben in Texas City, Texas, which will be in operation in time for the 1969 season, for Amiben continues to be the number one pre-emergence herbicide for soybeans.

On the other side of the picture, the Metalworking Chemicals and Benjamin Foster Divisions are currently in that phase of the business cycle where profit margins are shrinking because sales are not keeping pace with the increase in overhead and labor costs—a situation quite common in the present unsettled economy throughout the nation.

This condition, while painful, has its compensatory features, for it tends to make managers look more carefully at their costs and the efficiency of their organization, thus portending a healthier business future for their own particular operations.

During 1967 we have made organization changes in both our Technical and Sales groups, which already are proving beneficial. Our Detroit and Foster-Chicago manufacturing facilities have been expanded which will result in lower production costs. The Accounting Department has succeeded in computerizing a number of its operations and this, too, will contribute to our cost reduction and greater efficiency program.

In looking ahead to 1968, I am satisfied that in all of our Divisions we are headed in the proper direction. With the continued effort and cooperation of all of us, I am sure we will continue our progress.

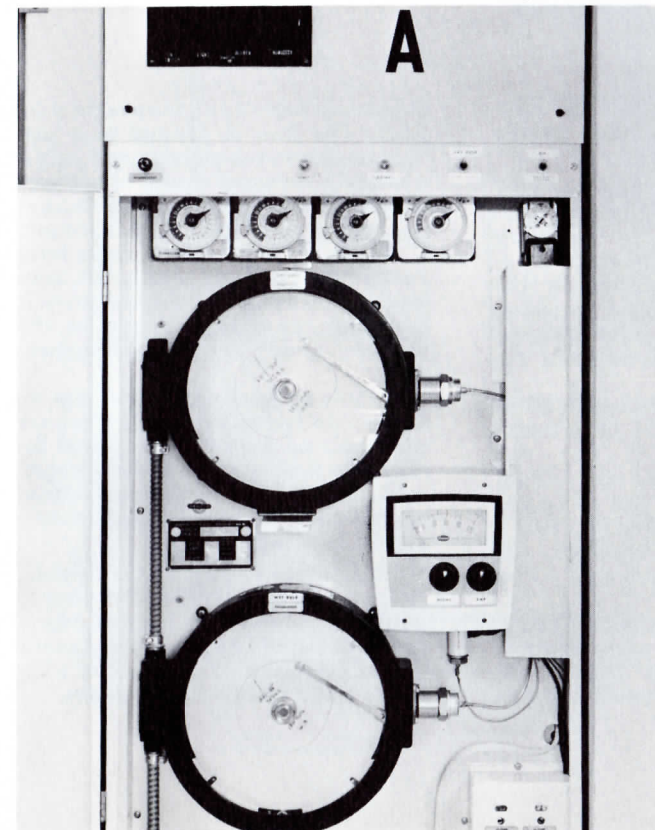
Gerald C. Romig

Gerald C. Romig
Chairman of the Board



(Above) Cocklebur plants growing vigorously in artificial environment as viewed through open doors of Plant Growth Chamber.

(Below) Control panel showing wet and dry bulb programmers, recorders; at top of panel are timers for controlling photoperiod.



ACD's Controlled Environment Plant Growth Chambers Duplicate Nature

by ANSON R. COOKE



DR. ANSON R. COOKE

Dr. Cooke is Amchem's Director of Biological Research located at the Farm, Spring House, Pa. He joined the Company in January, 1963, after having engaged in Research at Esso, Linden, N.J., and Du Pont, Wilmington, Del. He received his Ph.D. from the University of Michigan in 1953. He resides with his wife, Catherine, and their four children in Hatboro, Pa.

Wheat in Greece and Oregon . . . soybeans in New Jersey and Illinois . . . flax in Saskatchewan and Norway . . . rice in Louisiana and California, in India and Japan . . . these and other agricultural crops in various parts of the world grow under conditions which may vary tremendously from area to area and change with the seasons. Different environmental combinations of light intensity, day-length, temperature, humidity, air velocity, rainfall and nutrient supply all affect plant growth. They help determine crop yields directly, and also have an indirect influence through their effect on the growth of associated weeds.

Weed growth and herbicide response are affected by the same factors. In addition, stage and rate of weed growth play a major role in response to herbicides. While developing a new herbicide, under natural conditions it is not possible to study the interactions of all these factors at any one time. To obtain this information, field tests must be carried out for several years in a wide range of situations.

However, herbicide research is a highly competitive venture which is growing at a great rate. We can no longer afford to take our time developing new materials. We must get as much performance information as possible the fastest way we can. Controlled environment plant growth chambers, which can reproduce conditions independently whenever they are needed, afford great savings in time and ready insight into many problems.

Continued on page 23

Chez Nous!

*General Sales,
International,
Accounting Personnel,
Foster Division
Occupy
New Offices*



The rosewood panelled and brick lobby is inviting, comfortable.

No ribbon-cutting ceremony marked the occupancy of Building No. 18B—better known as THE NEW BUILDING—for its tenants began moving in towards the end of September—imperceptibly and informally—and, like stragglers slipping into the opening session of a convention, they kept coming in over a four-week period until all the offices were occupied by mid-October.

First to invade the new premises were the two Foster groups—the emigres from 46th and Girard Avenue, Philadelphia, via Butler Avenue, Ambler, and the little coterie from the basement of Building No. 18A, the B. F. Company having staked out an early claim to 3,275 square feet of prime space on the second floor.

Next came the International Division, which had been camping out for the past year in a rather pretentiously panelled barracks of non-descript design on “old” 309 at Spring House.

(They’ll miss the aroma from the Vineyard’s kitchen and the view of the trucks parked at Rotelle’s.)

Then Sonny Spruance and his faithful secretary, Ann Lucas, celebrated Columbus Day by becoming occupants of a suite of offices on October 12. They were followed by the rest of MCD General Sales personnel and a small corps from Accounting on the succeeding days of that and the following week.

A glance at the various scaled-down floor plans will show the distribution of space.

The 16,000 square-foot edifice, planned over 10 years ago as an extension of Building No. 18A, has a simply designed, yet impressive, entrance with a glass facade and a masonry marquee.

The lobby, contemporary in feeling, has a monochromatic color scheme: The walls are partially panelled in genuine rosewood; the remaining sur-

faces are windows and terra cotta color brick. The floor is covered in a harmonizing deep-toned red carpet, while a specially designed cluster of random-length, bronze finished ceiling fixtures provides a novel lighting arrangement.

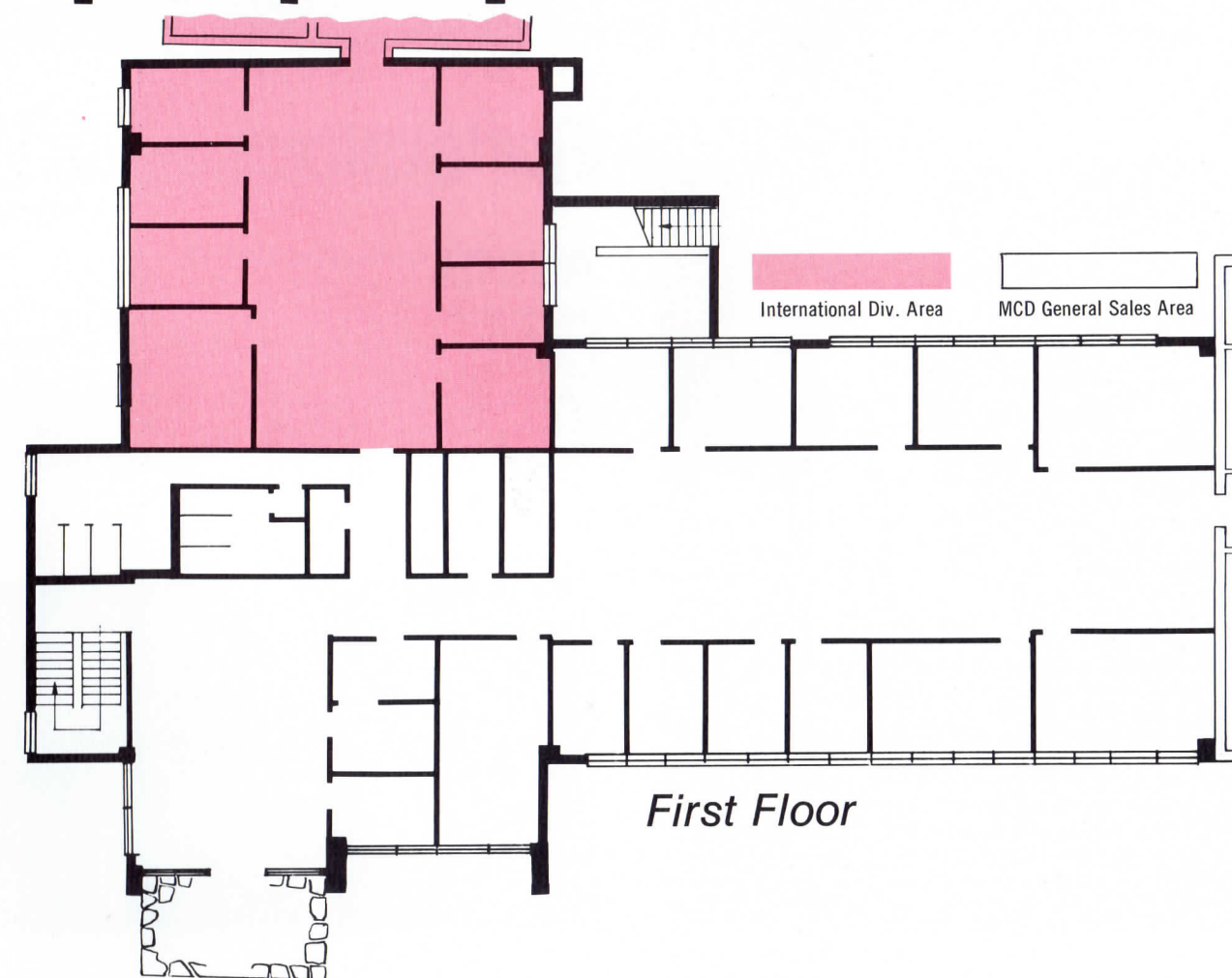
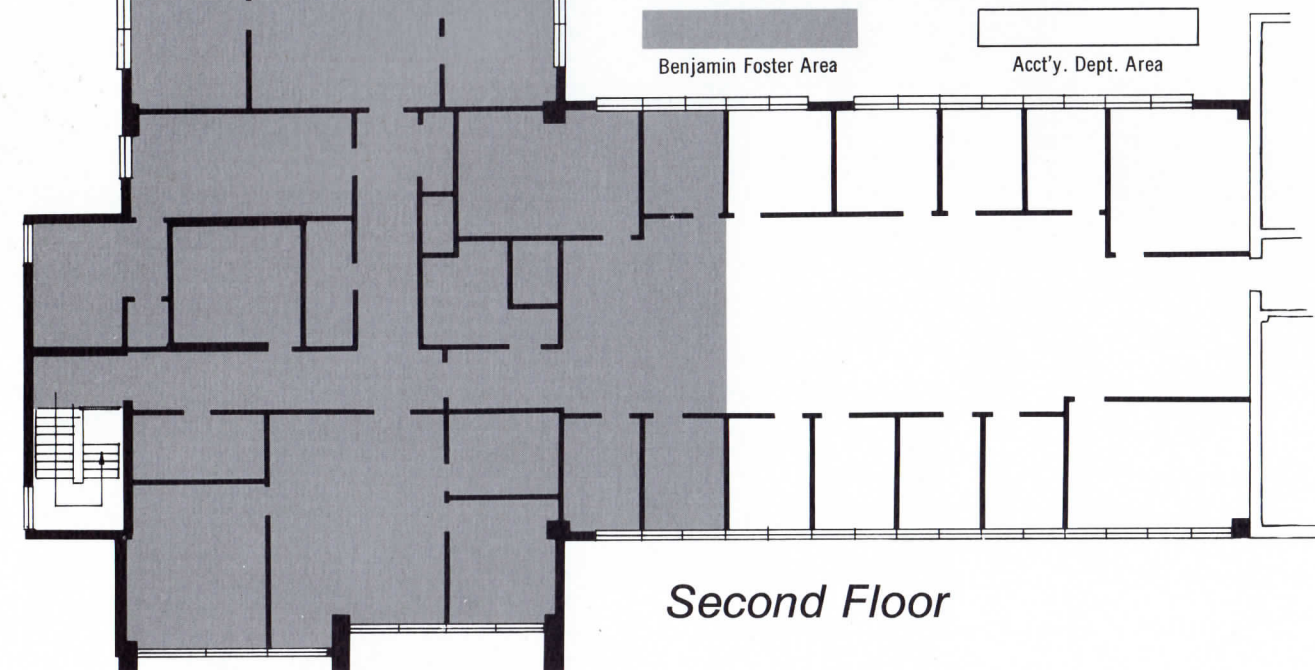
All offices and working areas have knotty pine panelling, with a soft, non-glare wax finish, and have wall-to-wall carpeting; the offices in gold color, the working areas in “salt-and-pepper” gray.

A modern lunch room occupies an area of the basement, where there are coin-operated food-dispensers and facilities for heating soups and beverages.

Concealed ceiling fixtures diffuse bright, uniformly soft light, throughout the building.

Taking a closer look at the outside, we note that the October-planted shrubbery is showing unusual vigor. Come Spring ’68 that “lived-in”, homey look will be taken on by the latest addition to the corporate headquarters.

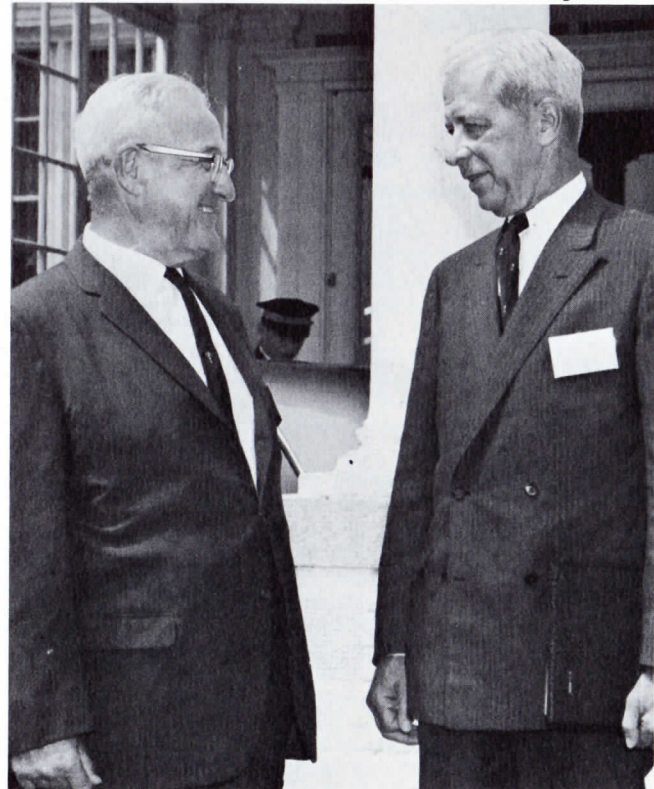
The Floor Plans





General view of audience at one of the many sessions.

Lew Scott and Chairman Romig have distinction of being the only two present who had attended first MCD Sales Meeting in 1931.



Reflections and Observations on MCD's National Sales Meeting

As a morale builder, educational device and communications medium for salesmen, it would be difficult to improve on MCD's National Sales Meeting program at the Seaview Country Club, Absecon, N.J., August 27-September 1, chairmanned by Jack Price, MCD Sales manager.

Beginning with the dinner and reception on Sunday evening, at which Chairman Romig and the other executive officers of the Company were on hand to greet the arrivals,

Jack Price introduces Eden Ryl to audience.



Jack Price about to introduce Chairman Romig (at left). Back-drop is simulated control panel for "blast-off"

until the departure of the last bus on Friday afternoon, every waking minute was packed with activity.

Full attendance and keen interest were noted at all working sessions, with unusual eagerness and immediate responsiveness marking the lively question-and-answer technical sessions conducted by Frank Precopio and John Geyer, which followed their talks on Tuesday and Thursday respectively. Hands were shooting up faster than those of "knotholers"

reaching for foul tips at a ball game.

In all there were 44 talks delivered, including Chairman Romig's welcoming address and those talks given at the various seminars.

Welcome by Chairman Romig

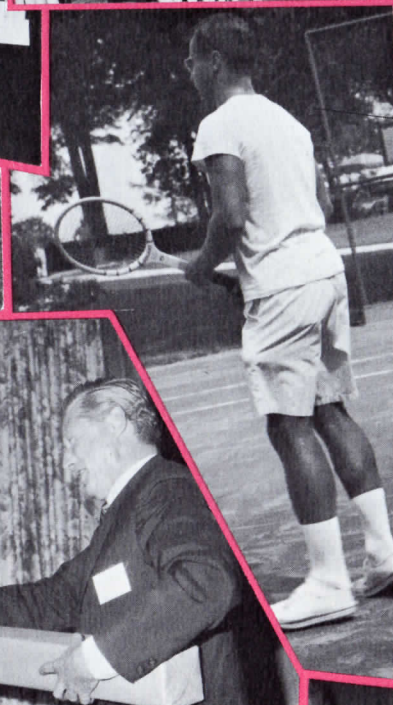
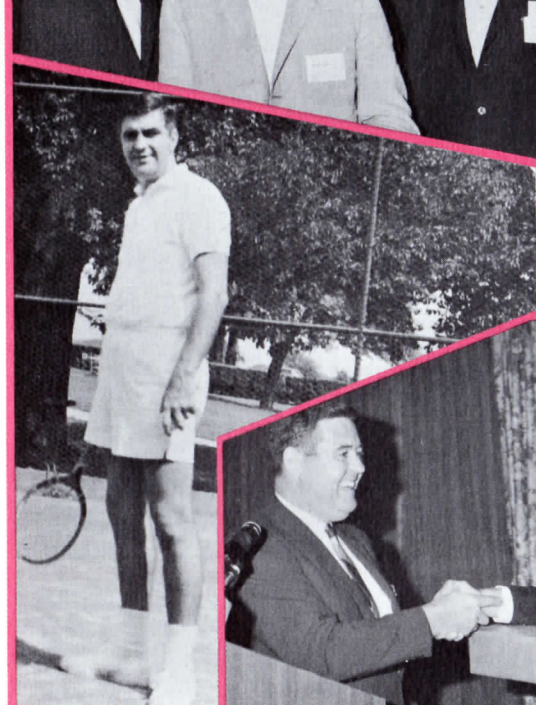
In his welcoming address, Chairman Romig stressed the responsibilities of the salesman to the Company, to the sales-

Continued on page 10

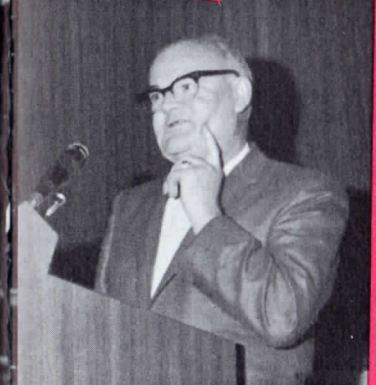
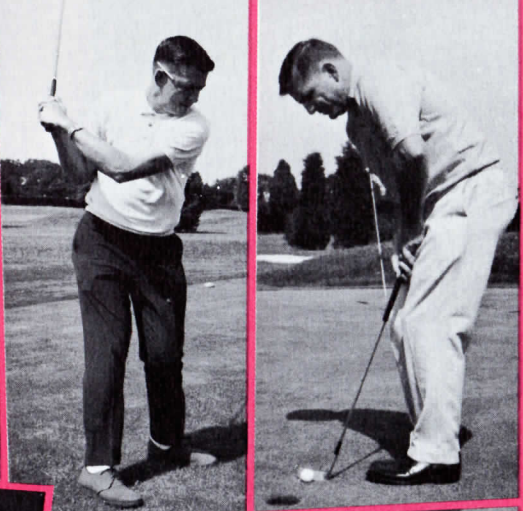
Company officers sit at table awaiting introduction at opening session. Identifications are plainly visible.



Focusing on MCD



activities at Seaview C.C.





MCD Continued from page 7

man himself and to his family; while Vice President-Director of Marketing, J. O. J. Shellenberger stated that with the Company's wide range of products, good patents and a sound research program, sales could increase, even though the metalworking industry as a whole is on a downgrade. This objective could be accomplished, he said, through the retention of old accounts and the acquisition of new ones; that salesmen should lick complacency, become more energetic, take pride in their Company and never belittle their own merchandise.

Spruance Gives Statistics

Vice President-MCD General Manager F. P. Spruance, Jr. presented some interesting statistics relative to the growth of MCD in the past 20 years. He stated that in 1947 there were 12 salesmen backed up by 10 research chemists and technicians in the laboratory; 48 salesmen in 1957, with a laboratory force of 22; and now in 1967 there are 84 salesmen in the field with 65 laboratory personnel. He also gave past, present and projected sales figures, making a unique analysis of the dollar productivity, on a per man comparative basis, for the year 1966 versus 1946. However, these figures are not for publication. Other comments by Spruance were that expenses are rising faster than sales; that MCD customer loss is less than the national average; that expenses must be held down to counteract increased production and other costs; that further diversification is necessary and that expansion of present product lines could help dollar volume.

Vice President-Finance Naylor explained that due to present-day economic factors profits would be one-third lower this year, even though 1967 sales might equal those of 1966.

Advertising, publicity and promotional plans for 1968 were revealed and explained by Jack Breen and Price, assisted by Norm Wisler and members of MCD's advertising agency.

Enter "Hank Hustler"

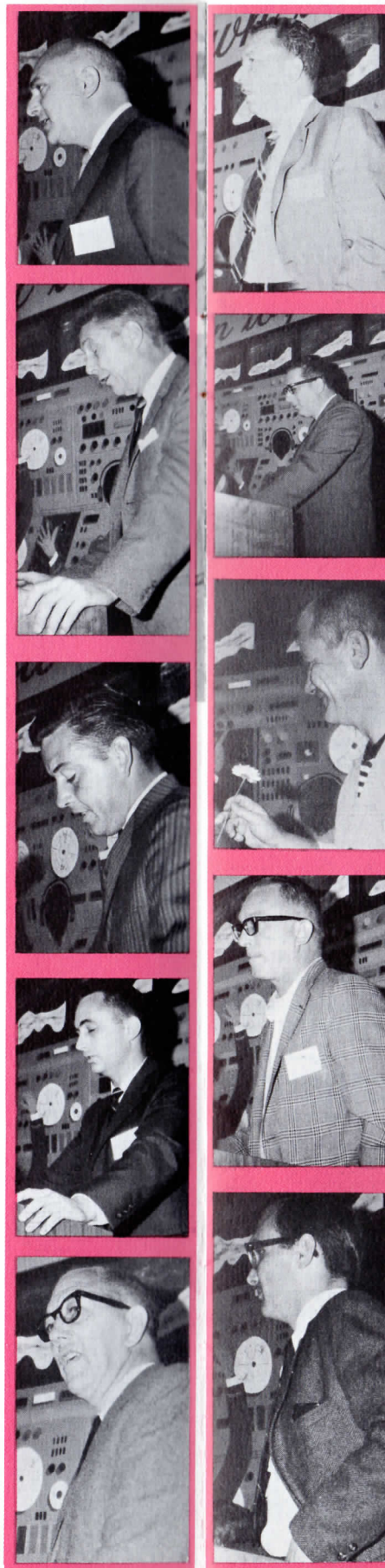
A novel device conveying the idea of salesmen using time and effort to their greatest potential was conceived by Ed Nusbaum, Assistant to Price. This Nusbaum creation was a cartoon character named "Hank Hustler."

"Hank" appeared as the perfect paragon of efficiency in a ten-minute slide presentation on a full-size screen every day in a six-stage series entitled "Six Major Obstacles to Profit and Sales." The series was excellently organized, concisely and forcefully written, and narrated clearly and effectively by both Ed and Jack.

Eden Ryl Seminar

The Eden Ryl Sales Seminar, termed by Jack Price "the highlight of a week-long series of highlights," was something of a surprise. The dynamic and spontaneous Miss Ryl, a female counterpart of Elmer (Sell-the-Sizzle-not-the-Steak) Wheeler, is an accepted authority on psychological salesmanship. Through her personal magnetism and skill in dramatics she explained the indispensability of total awareness and how it affects selling behavior. For almost three hours she captured the complete interest of her audience.

The foregoing portions of the program relate strictly to SALES and their relation to the theme of the Meeting—COUNT-DOWN TO PROFITS. In addition to this emphasis on sales, there were Product Managers' Seminars conducted by Bob Entrikin, Hugh Gehman, Greg Gibson and Bob Soren-



sen. Also on the technical side was the fine Lineguard® workshops program conducted by Dwight Buczowski and his staff in which the functions of the different components of six partially assembled Lineguard instruments were explained by Dwight, Tom Hopkins, Cliff Redfield, John Troup, Joe Krzaczek and Sandy Wallace.

Recreational Program

An unexpected treat and a thrill to many was a day at the Atlantic City Race Track, where the feature race was named *THE AMCHEM HANDICAP*. Jack Price had the honor of entering the winner's circle and making the presentation to the owners of the winner, a bay filly named *TANGLE*, which rewarded her backers with odds of 15 to one. Among the lucky bettors were most of the Amchem contingent, including Myron Johnson, who collected something like \$240.

Other recreational activities were ocean bathing, deep-sea fishing, tennis, golf, boardwalk promenading, pool, billiards and cards.

Three long-to-be-remembered gastronomical treats were the dinners at Smithville Inn's Lantern Light and famous Captain Starn's, and, of course, the Grand Banquet in the Main Dining Room at Seaview C.C. at which George Williamson, Vice President-West Coast Operations, spoke.

The Mayor of Atlantic City, the Honorable Richard S. Jackson, attended the affair at Captain Starn's and presented the Key to the City to John Shellenberger, but, unfortunately, we did not have our camera to record this event. Also attending the dinner and delivering a speech was the Honorable Leon Leopardi, Mayor of Longport, New Jersey.

Other speakers, whose names and topics appeared in the program as printed in the August issue of the *NEWS*, were: Gene Snyder, Bill Delanty, Graham Smith, Dick Reeves, John Harsma, Gus Oleson, Tom McCarthy, and Ells. Stockbower; also Harvey Hewitt, President Airmaster Corp., Phila., Pa. and Robert K. Ketterer, Reynolds Metals Company, Richmond, Virginia.

Spectacular Finale

To climax the week-long succession of events, a motion picture of a real blast-off at Cape Kennedy was flashed across the screen. This spectacle was accompanied by the actual sound of the launching. The voice of a professional commentator, who gave the count-down with all the colorful excitement of an on-the-spot reporter, was dubbed in. The screen was framed in the center of a stage-wide canvas backdrop depicting a huge control room in full color. As the spacecraft floated into the air off the launching pad, lights flashed on the instruments painted on the canvas backdrop creating a most dramatic effect. An immediate burst of applause from the audience and a standing ovation put the frosting on the cake.

In concluding, we'd like to comment on the excellence of the technical papers prepared and delivered by the various MCD technical personnel. Also a word of praise is due to Jack Price for initiating and developing the agenda and solidifying its various segments into a logical, coherent program that operated on exact schedule. The production was real "pro" and a tribute to his organizational and directorial ability and his forte for getting zealous cooperation from all sides.

A pat on the back is due to Advertising Director Jack Breen and Norm Wisler who were hard at work all day Saturday and well into Sunday morning setting the stage for the opening.





Vice President-Director of Finance Naylor accepts 25-year Service Award watch from Chairman Romig.
Management



George Gardner accepts 25-year Service Award watch from Chairman Romig.
Frank Precopio (l); Richard Reeves (r).
MCD Research



Oran Crisler accepted 20-year Service Award at MCD Sales Meeting.
MCD Ferndale



John Linden accepted 25-year Service Award watch at MCD Sales Meeting.
MCD Ferndale



Ralph Lelii (l) accepts 25-year Service Award watch from Chairman Romig.
Karl Weigand (r).
MCD Lab



Francis Cahill accepts 25-year Service Award watch from Chairman Romig, Ray Colmar (l); Adolf Karcher (2nd from l).
MCD Manufacturing



Harry Croll (c) accepts 20-year Service Award from Jack Carroll, Pat Harrison (l).
MCD Research



Ells Stockbower (r) receives 20-year Service Award from MCD-Vice President F. P. Spruance, Jr.
MCD Sales



Robert Applegate (r) accepts 15-year Service Award from Frank Boland, ACD Manufacturing



Wally Dragani (l) receives 15-year Service Award from Ray Robinson, Maintenance



Herb Hopwood (c) accepts 15-year Service Award from W. Graham Smith (l), Dick Rockstroh (r).
Receiving



Tom Rogers (r) accepts 15-year Service Award from Jack Price, MCD Sales



Leroy Smith (r) accepts 15-year Service Award from Ray Robinson, Maintenance



John Thompson (r) receives 15-year Service Award from Adolf Karcher, MCD Manufacturing



Cliff Hunt (c) receives 10-year Service Award from Leo Damskey (r); Tom Bueter (l).
MCD Sales



Roy Johnson (l) receives 10-year Service Award from Stan Fertig, ACD Research



Shirley North (r) accepts 10-year Service Award from Hirsh Segal, Residue Research



Joe Paulson (r) accepts 10-year Service Award from Jack Taylor, ACD Sales

Congratulations!

These are the men and women of AMCHEM who have received Service Awards Emblems between July 1 and November 1, 1967.

★ 25 YEARS ★		
Francis E. Cahill	Ralph A. Lelii	Raymond M. Naylor
George S. Gardner	John J. Linden	
★ 20 YEARS ★		
Oran E. Crisler	Harry L. Croll	Ells A. Stockbower
★ 15 YEARS ★		
Robert Applegate	Lester H. Hartwig	Thomas P. Rogers
Valdo Dragani	Herbert W. Hopwood	Leroy Smith
Edna M. Gauss	Irwin E. Pintke	John Thompson
★ 10 YEARS ★		
Clifford J. Hunt	Thomas J. Paulson	Stig F. Sasse
Roy Johnson	Henry Sansom	Hirsh S. Segal
Shirley North		Elsie Wilkinson
★ 5 YEARS ★		
John S. Black	Donald M. Harrington	Florence I. Michener
Martha Davies	Thomas L. Hopkins	John M. Nunn
Roy C. Eberz	Leland P. Kollussen	Percy A. Satoris
Harry Haldeman	Herbert E. Korschewitz	Matthew Sienko
Frank Markley		Paul V. Tomlinson



Henry Sansom (c) accepts 10-year Service Award from Al Sinclair (r); Paul Kern (l).
MCD Sales



Stig Sasse (r) receives 10-year Service Award from Bill Delanty, International



Hirsh Segal (r) receives 10-year Service Award from Frank Precopio, MCD Research



Martha Davies accepts five-year Service Award from John Horn, Packaging



Roy Eberz (l) accepts five-year Service Award from F. E. Wilson, Personnel



Harry Haldeman (l) accepts five-year Service Award from H. Hopwood, Receiving



Don Harrington (c) receives five-year Service Award from Al Sinclair (l); Paul Kern (r).
MCD Sales



Tom Hopkins (l) receives five-year Service Award from Dwight Buczkowski, MCD Engineering



Herb Korschewitz (l) receives five-year Service Award from Leo Damskey, MCD Sales



Jim Musante (c) receives five-year Service Award from Al Sinclair (r); Russ Bedford (l). (As of June 1967)
MCD Sales



Frank Markley (l) receives five-year Service Award from F. Boland, ACD Manufacturing



Percy Satoris (l) accepts five-year Service Award from Mel Patterson, MCD Sales



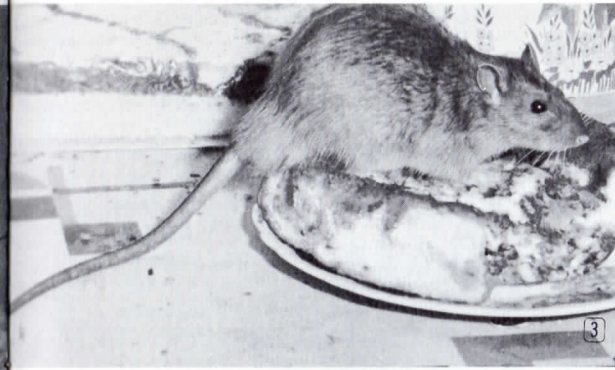
Matt Sienko (r) receives five-year Service Award from H. Haldeman, Receiving



Paul Tomlinson (c) accepts five-year Service Award from Al Sinclair (l); Paul Kern (r).
MCD Sales



Norman Buckley (l) accepts five-year Service Award from Hal Wendorf. (As of Dec. 1966).
Fremont



- (1) A few of the many rodenticides that use Amchem FUMARIN as the lethal ingredient. These include Amchem's own Ratafin and Fumazol-S.
- (2) He's been around a long time. Egyptian hieroglyphics record the existence of his ancestors.
- (3) This little fellow has someone's prized recipe for breakfast.
- (4) Rats have six to ten litters, such as this, a year.
- (5) Leonard J. Czarniecki (l) Rehabilitation and Conservation Officer, U.S. Dept. of Housing and Urban Development, and Ed Horahan, Product Manager, Amchem Rodenticides, discuss rat control in relation to proposed Federal program, at 34th Annual Convention of National Pest Control Association, Sheraton Hotel, Oct. 18, prior to Mr. Czarniecki's excellent talk.

Stocked with Amchem Fumarin Ed Horahan Is Modern Pied Piper

One pair of rats, Ed Horahan tells us, if allowed to breed for three years would produce, through successive generations, a total of three million offspring—barring, of course, any deaths during this three-year period. According to certain estimates, rats comprise one-third of the earth's total population of mammals.

A rat's normal life span is from nine months to one year. However, some have survived in captivity for as long as three years. Rats are ready to mate at the age of six months and have six to ten litters a year, with an equivalent number of offspring, even litters as high as 17 have been reported.

Two Billion Dollars Loss

In the United States alone the rodent population costs something in excess of two billion dollars annually. In India it is estimated that the over-all loss of grain due to rodents is 25% in the field before harvest and 25% to 30% in storage.

During a particularly severe infestation in the Philippines, rat populations up to 2,000 per hectare (2.471 acres) and losses up to 90% of the rice, 80% of the corn, and 50% of the sugar crops were reported.

Attack Humans

More horrifying and pathetic are the stories involving attacks on humans. Last year in the United States 1,000 cases of rat bites were reported in just seven cities. New York city reports 500 to 600 rat bites per year. In Chicago an infant was strangled between the bars and mattress of her crib while apparently trying to escape from an attack by rats. In the same city, *TIME* magazine reported a child had been nicknamed *Pigface* after a rat had bitten off his nose.

Disease Carriers

Also shuddering to contemplate is the rat's proclivity for transmitting 35 known diseases to man and animals—the best-known of these diseases being the plague, the "black death" that took 25 million lives, or one-fourth of Europe's population in the 15th Century. Five centuries later, the plague is still with us, for 2,000 cases of this dreaded disease occurred in the first eight months of 1966 in Vietnam. And as Ed Horahan puts it: "Just as ships in the past conveyed a clandestine colony of unlisted passengers (rats), so today, with the growth in size and in number of the world's cargo planes,

the danger of widespread plague recurring is entirely possible."

Four-legged Arsonists

Further emphasizing the destructiveness of the rat, Ed said: "Rodents are characterized by a very effective cutting tool—their rapid-growing front teeth. The incisor teeth of a rat appear about eight days after birth and grow at a rate of five inches per year. If growth is not worn down by constant gnawing, the teeth will curve back in the form of tusks and the rat will die of starvation. Consequently a rat must gnaw to live. Rats can gnaw through lead pipes, three inches of poorly-mixed concrete, oak planks, and sun-dried brick. They have caused blackouts by gnawing through the lead sheathing or electric cables, and it is estimated that 25% of the fires of undetermined origin are caused by the rats satisfying this instinct to gnaw."

Ed, The Rat Killer

Every day, Ed Horahan, without benefit of flute or whistle, leads more rats to their doom through their ingestion of rodenticides containing FUMARIN than a thousand Pied Pipers.

As Product Manager, Ed devotes nearly all this time to expanding the sales of FUMARIN®—an Amchem exclusive—to rodenticide manufacturers throughout the United States—and, to fall back on a threadbare cliché, he's done an outstanding job ever since he joined the Company in June, 1963.

Fumarin—What It Is; What It Does

According to Ed, FUMARIN is an anti-coagulant chemical, and in scientific terminology is stated as 3-(Alpha-Acetylfurfuryl)-4-Hydroxycoumarin. "When a series of sub-lethal doses (of FUMARIN) is consumed over a period of days," states Ed, "death occurs through internal bleeding, because FUMARIN inhibits the formation of prothrombin in the liver, thereby reducing the clotting ability of the blood; prothrombin being a substance in the blood stream which causes blood to clot when the blood vessel is damaged. During the normal metabolic process—or the natural chemical changes that are constantly taking place in living cells—small breaks occur in the tiny, thread-like blood vessels. The ability of the blood to coagulate

seals these breaks, but the action of FUMARIN prevents this and the victim (Mr. Rat) slowly, painlessly expires as a result of internal hemorrhage. So undetectable is FUMARIN that the victim does not associate danger with this deadly diet since there is no violent action, no warning of impending doom."

Introduced in 1955

Amchem first introduced FUMARIN in the United States in 1955. Today it has national distribution, with 5-, 25-, and 100-lb. drums of FUMARIN concentrate rolling out of Amchem's Ambler Plant and its branches in St. Joseph, Mo. and Fremont, Calif., to exterminators and to formulators whose rodenticides reach every state in the Union.

In addition to its sales of FUMARIN concentrate, Amchem is currently test-marketing ready-to-use formulations of FUMARIN in an effort to broaden its rodent control program. These products are sold under the trade names of AMCHEM RATAFIN-25, and AMCHEM RODENT CONTROL KIT.

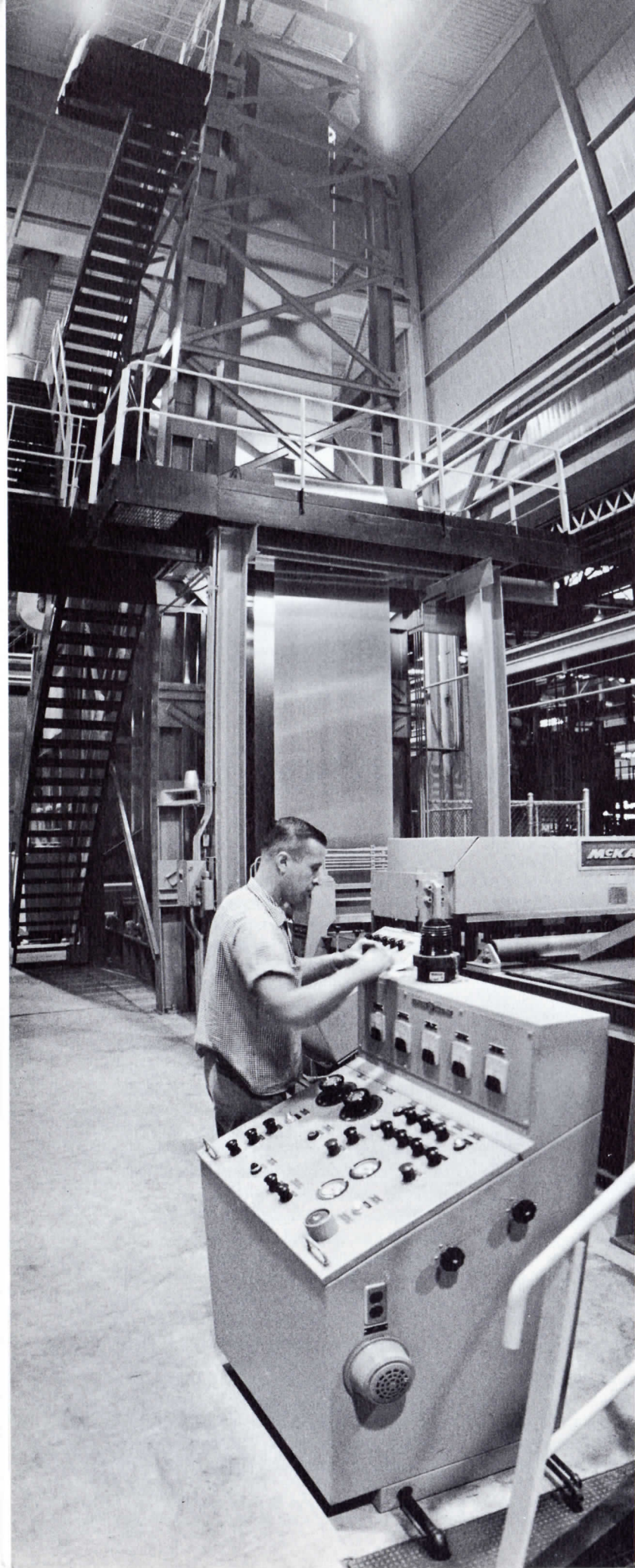
The latter consists of a dozen packaged bait placements (or portions)

containing FUMARIN, a six ounce jar of water-soluble FUMARIN formulation and a specially designed bait dispenser. The Kit, primarily designed for farmers, is capable of killing a minimum of 30, and possibly as many as 50, rats. It is planned to sell these Kits through farm service centers and farm stores, since this is where the greatest market potential exists.

Yearly, over a million pounds of anti-coagulant concentrates—including FUMARIN—are sold in the United States. Each pound of concentrate is enough to make 20 pounds of ready-to-use killer. The estimated total value of this output is in excess of 20 million dollars.

"Through man's careless disposal of trash, garbage and other waste, and his indifference to weed growth around buildings the rat has thrived, for such an environment provides perfect harborage and a source for food.

"By conscientiously observing a sustained program of sanitation and a regulated use of rodenticides, man will effectively restore order to the physical environment and thus limit the capacity of this environment to support rodent population," concluded Ed.



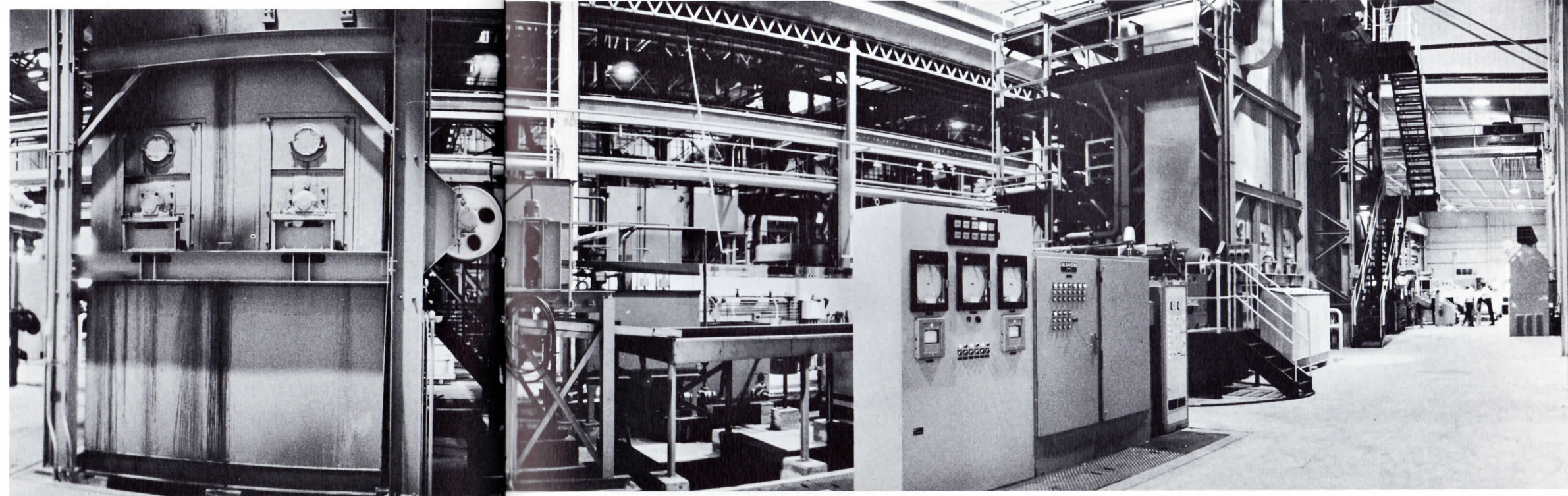
Norm Wisler Discovers *What a Line* Alcan Has...

We're sure you can think of a thousand and one more exciting ways to spend an evening than sitting in a motel room in Warren, Ohio, listening to the playback of an interview with a couple of plant executives on the technical aspects of, and the procedure involved in, the chemical coating and painting of aluminum.

This experience isn't exactly what you'd call a night in Las Vegas, but to Norman Wisler, MCD's "flack", who was

(At left) An Alcan employee, standing at entry control desk, makes notes as the aluminum strip travels into the accumulator tower and down the 450-foot long line at 300 feet per minute.

(Below) View of 450-ft. Alcan line shows instrumentation—including Amchem Lineguard Control installation (center right) and facilities for using pre-paint coating chemicals (extreme left).



Processes 60-inch wide Coil at 300 feet per Minute

interested in contributing a story to a metalworking industry magazine on the world's most sophisticated continuous line for coil-coating aluminum, such an evening wasn't half long enough.

Norm, accompanied by a photographer, had just finished a full day of interviewing Kenneth MacQuarrie, Plant Manager, and George Raschke, Paint Line Superintendent, at Alcan Aluminium Corporation's Warren, Ohio, plant for he wanted to do an

accurate and knowledgeable reporting job on his Alcan assignment, only to sit down for hours in his Warren motel room in order to listen to and absorb the information contained in the tape recording of the interview.

The data which Norm collected was later converted into a technical story in which he put major emphasis on Amchem's contribution to the success of the Alcan installation.

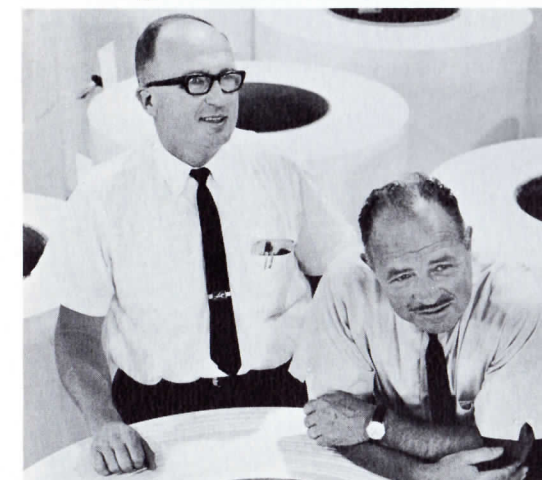
The coating line at Warren is something to write about! For it is 450 feet

long—that's 150 feet longer than the playing length of a football field—and it is fully automated. It can apply one or two coats of paint to one or both sides of .010 to .064 gauge (inch thick) coiled aluminum in widths up to 60 inches at speeds up to 300 feet per minute. Some of the coils weigh as much as 15,000 pounds, although the line can accommodate 20,000-pound coils when these will be processed at some later date.

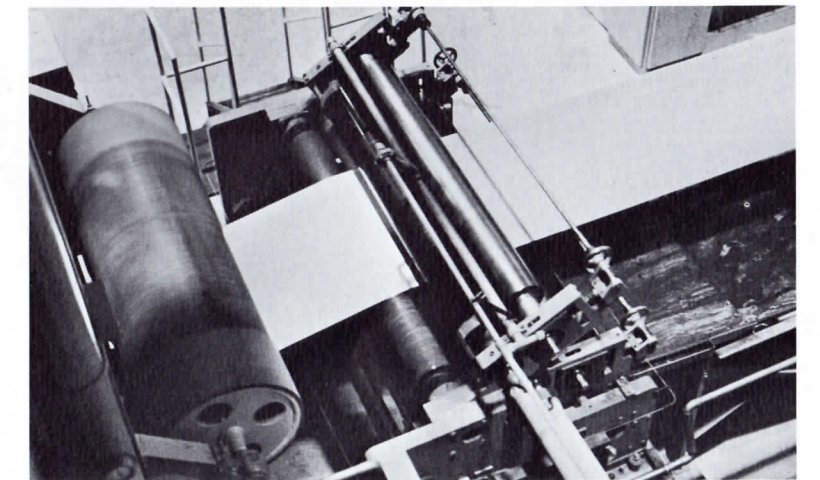
To keep the line in continuous oper-

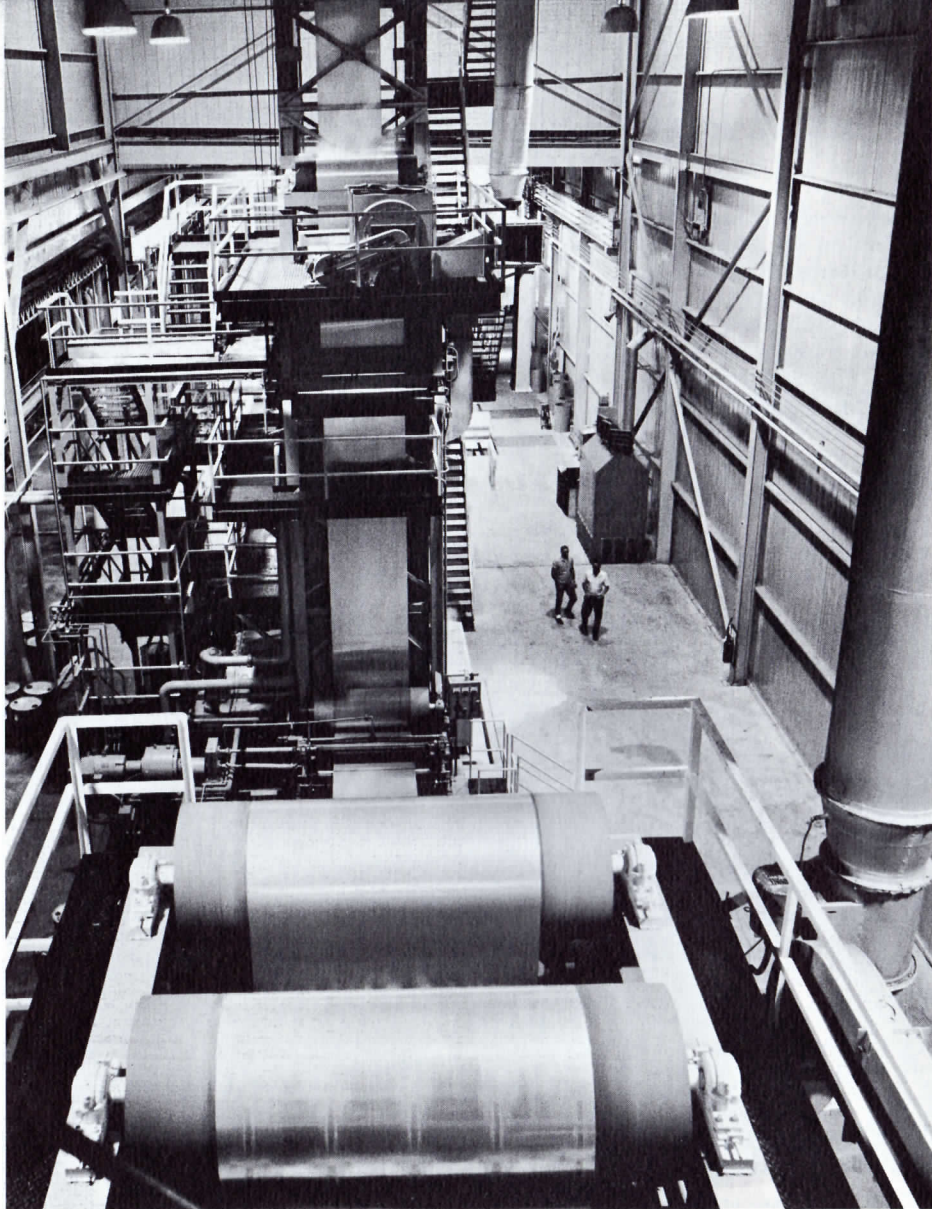
Continued on page 18

Standing among finished coil of various widths, Alcan Paint Line Superintendent George B. Raschke and Plant Manager Kenneth M. MacQuarrie observe line.

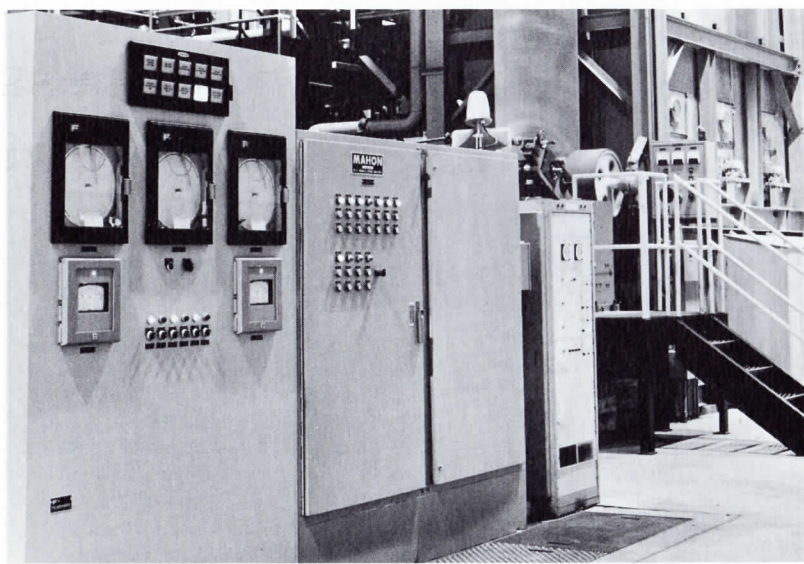


Amchem Alodine is applied to Alcan's aluminum by a reverse roll coater, an application method patented by Amchem. The rear corner of Amchem's Lineguard Control Center can be seen in upper right corner of picture.

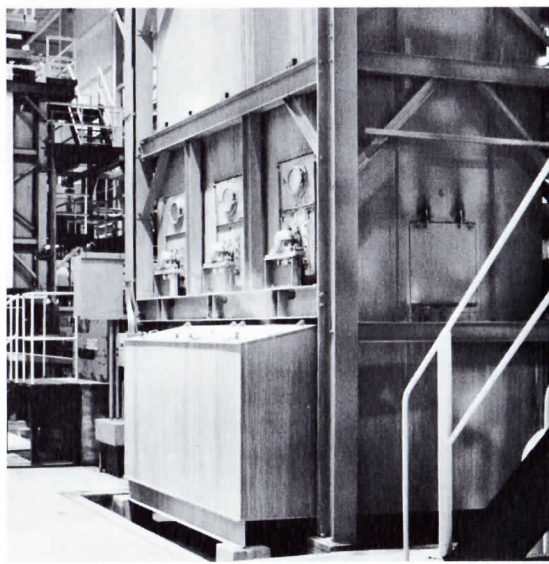




Aluminum strip is cleaned (top center) by passing through Amchem Ridoline bath and fresh water rinse, then passes through reverse roll coater (bottom center) to receive coating of Amchem Alodine No. 1200R, is rinsed (foreground) with fresh water and Amchem Deoxylyte No. 11.



Electronic controller-recorder systems include Amchem's patented Lineguard Control Center, shown at right end of bank. It continually senses and maintains the cleaning and rinsing baths of the pre-paint treatment of aluminum strip.



After leaving tower, aluminum strip is cleaned with Amchem Ridoline, then rinsed with water. Both are spray processes performed in vertical chambers.

WISLER—continued from page 17

ation a hydraulically operated press splices the trailing end of the coil being processed to the next coil to enter the line.

The series of pictures accompanying this article shows the extent of the Alcan line and some of its components and their functions. In the latter are included these Amchem products: Lineguard* No. 47 Control Center, which eliminates human error for it automatically meters chemicals and/or water as required to maintain optimum efficiency; Ridoline* bath and rinse; Alodine* No. 1200 R conversion coating chemical; and Deoxylyte* No. 11 rinse. Alcan uses these Amchem products exclusively and claims that the Amchem patented reverse chemical roll coating process, in addition to performing at top efficiency, also minimizes the maintenance that would be necessary with spray processing.

Now, if anyone is interested in pursuing the Alcan story further, Norm has a wealth of statistics which he can reel off faster than Phil Harris scat-singing "That's What I Like about the South."

Take a bow, Norm, for we think you dug up more info—though technical as required—than the talented Pete Martin ever did in his familiar series of celebrity interviews.

Our parting salvo to Alcan — Amchem would like to thank Robert Oleson, Alcan Advertising Manager, and Messrs. MacQuarrie and Raschke for their extreme courtesy to Norm during his visit to Warren.

*Registered trademarks of Amchem Products, Inc.



A formal technical session finds Joe Dudek (l) and Ellis Stockbower at the far end of the conference table, and Don Page and

Warren Weston (with backs to camera) at near end. Licensee delegates from five companies are seated at the long sides.



Don Page addresses working session.



Warren Weston makes banquet speech.



Joe Dudek nears "punch line" of joke.

Tri-lingual Communication Big Factor in Success of First Latin-American Metalworking Seminar

To achieve better communications something of an innovation marked the first Latin-American Metalworking Seminar which took place during the week of June 26, in the Grand Hotel Ca d'Oro, Sao Paulo, Brazil, when daily technical discussions were held in English, Spanish, and Portuguese. This trilingual method of communication proved remarkably successful, according to Don Page, one of the four Amchem delegates. Out of these informal sessions came a wealth of information pertaining to the metalworking industry in general and to the solution of

specific problems common to this industry in Latin America.

In all there were a total of 22 delegates representing these companies: Cia. Imperial de Industrias Quimicas do Brasil, which acted as host; Industrias Quimicas Argentinas "Duperial", Industrias Quimicas Uruguayas "Duperial", DuPont, S.A. de C.V. (Mexico) and DuPont de Venezuela C.A. In addition to Page, Joe Dudek, Warren Weston and Ellis Stockbower also represented Amchem.

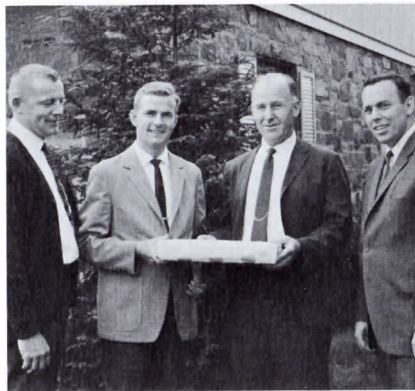
The organization of the program followed the pattern established years

ago by Amchem and which has become standard procedure for such conferences, with an informal reception for all the delegates on the evening preceding the opening of the working sessions.

In addition to the series of technical talks and the formal and informal discussions, there was a session on Marketing techniques which was followed by visits to the plants of Ford Motor do Brasil and General Motors do Brasil.

Amchem is looking forward to a second Latin America technical seminar tentatively scheduled to be held in Buenos Aires, Argentina, in 1968.

"Good Time" in Austria



(Left to Right): Roy Johnson, Dieter Stroh, Stan Fertig, Bob Replogle pictured at Research Farm.

Dieter Stroh (2nd from l.) is the happy recipient of a combination clock and marble desk set presented by Stan Fertig (2nd from r.), ACD Director of Research, on August 30, 1967. Dieter, who is an employee of Agro Bautenschutz und Pflanzenschutz Gesellschaft Stroh and Company, Wels, Austria, an Amchem manufacturing associate, was sent by his company to Amchem to acquire first hand knowledge of the herbicide industry, particularly the research end. He arrived April 1 and returned to Austria August 31.

Most of Dieter's time was spent at Amchem's Research Farm, Springhouse, Pa., where he worked as though he were a regular Amchem employee.

In appreciation for his contribution to the work at the Farm and in acknowledgement of his excellent spirit of cooperation and friendliness, the Research Staff at the Farm presented him with this handsome gift.

Dieter's brother Eric engaged in a similar training program at Amchem in 1962.

Bob Replogle, International Division Administrative Assistant (r), provided daily transportation for Dieter, while Roy Johnson (l), ACD Research, was his sponsor at the Farm.

Card Is "Ace" at Tech. Coating Co.

Pete Card, industrious MCD Sales Representative, Western Region, gave an interesting and instructive talk on the pre-paint coating of metals at a sales and technical meeting of the Technical Coating Paint Company, Santa Clara, Calif., August 11.

Pete briefly covered the history of pre-paint chemical coating and then talked at length on the specific coatings for steel, aluminum and galvanized metals, emphasizing the superior features of MCD's broad and versatile line of conversion coating chemicals.

The talk was enthusiastically received as evidenced by the voluntary hour-long question-and-answer session which followed.

ATLAS NEWS Again Features Foster

ATLAS NEWS, external publication of Atlas Preservative Co., Ltd., Erith, England, for the second time this year devotes a full page to Foster Products. The article, entitled "Three Spheres for Foster," is accompanied by a large, full color illustration and two smaller ones in black and white. The title, an obvious play on the expression "Three cheers etc.," has more significance than an attempt at punning, for the article deals with the use of Foster Fire Resistant Aluminium Mastic 60-65A and Foster Flexfas Adhesive 82-10 and Foster Foamglas on three huge gas storage spheres, each holding 500 tons, at the Cadwell Lane Plant of the Eastern Gas Board near Hitchin, England.

This is how ATLAS NEWS explains the application of these products: "In addition to using Foster Flexfas Adhesive 82-10 to cement the blocks of 'Foamglas' low temperature insulation in place, built up from the bottom of the sphere, Fig. 1*, Foster Aluminium Mastic 60-65A, which is fully fire-resistant and which possesses very good heat resistance and flexibility, was trowelled on to the entire 'Foamglas' surface, Fig. 2*, protecting the insulation and spheres by its outstanding resistance to weathering; in addition its low permeance reading acting as an excellent vapour barrier."

We are more than grateful to the editor of ATLAS NEWS for publicizing these various projects utilizing the products of Amchem's Benjamin Foster Division.

*References to the black-and-white illustrations mentioned in the initial paragraph.

Ducsik, Snyder Appointments

Earlier this year, Dick Rockstroh, Assistant to Director of Manufacturing W. Graham Smith, sent out the following announcement over his (Dick's) signature.

"We are pleased to announce the following appointments.

"Andy Ducsik is appointed Supervisor of Production Control. Reporting to Ray Collmer, Andy will continue the production control activities he has been involved with for a number of years and in addition will supervise the activities of the Inventory Department.

"Bill Snyder is appointed Assistant Supervisor for the Shipping Department and will assist Jim Roberto and Gabe Mancini in the supervision of the shipping activities."

Sailing, Anyone?



Ray Neilson, Ferndale, sent us this shot taken from the entrance to the Ferndale Office last July 19.

"If the water," writes Ray, "had risen another inch or two higher, not only would the office, but also all of the building would have been flooded."

Another picture, which Ray sent but which was too indistinct for reproduction, showed the Ferndale loading bay filled with water. It looked exactly like a swimming pool. "The water was 45 inches high one-half hour after the picture was taken," Ray informs us.

MCD's Sickel, Sternick Advanced to Promotion Specialists

Ed Sickel and Mike Sternick, MCD Sales, Midwest and Eastern Regions respectively, have been promoted to the two newly created positions of Promotion Specialists.

According to a news release sent to metalworking industry trade journals, "both men are charged with the responsibility of promoting and efficiently marketing Amchem's line of Sno-Flake products . . . paint strippers, booth coatings, water curtain compounds and more than 100 other production and maintenance chemicals."

Ed, a resident of Elk Grove Village, Ill. (a Chicago suburb), started with Amchem in February, 1960. He graduated from St. Joseph's College, Collegeville, Ind., with a B.A. degree in 1955, and also majored in law at De Paul University Law School, Chicago.

Mike, who earned a B.S. from Seton Hall University, East Orange, N. J., in 1952, joined Amchem in February 1956, following a successful stint as a professional industrial salesman. Ed is a native of Succasunna, N. J.

MCD Researchers Keep U.S. Patent Office Busy

Al Douty, Fred Heller, and Les Steinbrecher, MCD Research, had the distinction of being on the receiving end of Patent No. 3,333,988 granted August 1, by the U.S. Patent Office.

The patent covers a new process using nitrite as an additive to chlorate-accelerated zinc phosphate coatings on steel or galvanized steel. The addition of the nitrite to chlorate coating solutions enables the latter to be maintained "in good condition so that they can be used with customary replenishment for long periods of time without encountering the difficulties resulting from deterioration of the solution."

All three men have assigned the patent to Amchem.

And Still Another!

Les, Dave Dollman, Dwight Buczkowski, and Pat Harrison had a brain merger and came up with a unique method and apparatus for measuring fluoride activity for which the U.S. Patent Office issued them Patent No. 3,329,587 on July 4.

We excerpt two paragraphs from the official printed and quite involved patent pamphlet which, we hope, will give NEWS readers an inkling of what No. 3,329,587 is all about, since our familiarity with fluoride is limited to toothpaste advertising.

"The method and apparatus have their primary utility in measurements made on acidic systems, since these are the systems in which, according to present experience, fluoride activity is present.

"The invention is useful in monitoring fluoride activity in various types of solutions in which wide variety of other anions are present. Heretofore reliable measurements of fluoride activity have been inherently difficult to obtain because many analytical methods are unable to differentiate between fluoride activity and the total fluoride content. Total fluoride concentration is a relatively less important property than activity, since it is the activity of the solution which determines its degree of utility for many purposes."

Les, Dave, Dwight and Pat have assigned the patent to Amchem.

Hartwig's Son Gets Football Scholarship

The UNION SPRINGS (Alabama) HERALD, supplies us with the following news bit:

"Bob Hartwig has accepted a football grant-in-aid at Black Hills College, Spearfish, South Dakota. He and his wife and son, Shane, left Tuesday for Spearfish, where he will enroll as a Freshman at Black Hills College.

"Last year Black Hills College



BOB HARTWIG

ranked 25th nationally among small colleges, with several players signing professional contracts after the season closed."

Bob is the son of Les Hartwig, ACD Sales Representative, Southern District. The above picture shows Bob making some good yardage as full-back on the Bullock County (Ala.) High School team, where he had played for the last four years.

Seven New Products from MCD Researchers

In case there are any skeptics in the house, we feel it should be made known to them that the lads who perform for Dick Reeves do more than support the coffee machine.

Within recent weeks seven new products have emerged from the assorted concoctions that these MCD labmen always seem to be mixing, heating, brewing, stirring, pouring, spooning, testing and writing about—but, that's chem biz!

These seven products, as Norm Wisler, MCD's publicist, tells us, are (1) RODINE XL No. 1060, a bath additive for pickling steel with hydrochloric acid in continuous lines; (2) GRANO-LEUM No. 232, a new drying-type, corrosion-preventative oil that produces a continuous film, which protects bare steel for at least one year under normal indoor storage conditions; (3) RIDOLINE No. 70, a new, powdered, non-silicated alkaline cleaner specifically formulated to clean steel, aluminum and galvanized steel in mild steel immersion or power-spray equipment; (4) RIDOLINE No. 422, an etching-type, spray-on cleaner for aluminum—won't dull like caustic soda cleaners and meets can stock standards; (5) DEOXIDIZER No. 17, a deoxidizer that overcomes the build-up of copper and other contaminating metals encountered in deoxidizer baths when these baths are handling aluminum alloy; (6) RODINE No. 31A, an organic compound added to acid

Jane Bishop Wed to James Halteman

Jane Louise Bishop, daughter of Russ Bishop, Manager-ACD Laboratory, and Mrs. Bishop, was married to James G. Halteman, son of Mr. and Mrs. Wilmer Halteman, Harleysville, Pa., in a formal religious ceremony at the Blooming Glen, Pa., Mennonite Church, September 2. The bride was given in marriage by her father. Her three brothers, Greg, Tom and Dave, and her cousin, Geoff Landis, son of Jacob Landis, ACD Lab, were ushers.

"Jake" was a member of a quartet that sang several traditional hymns during the ceremony.

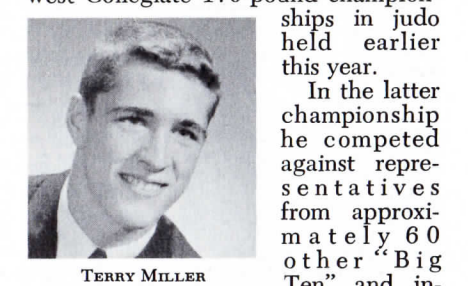
Jane attended Goshen College, Goshen, Ind., from which her husband graduated. She is continuing her studies in journalism at Kent State University, Kent, Ohio.

The couple is residing in Cuyahoga Falls, Ohio, where Halteman is engaged in social work for the Summit County Child Welfare in Akron.

Jane has a wide circle of acquaintances at Amchem, having worked at the Research Farm during her summer vacations.

ACD Salesman's Son Wins Collegiate Judo Championship

Terry Miller, son of Dick Miller, ACD Sales, and a senior at Michigan State University, won the Michigan Conference all-weight and the Midwest Collegiate 170-pound championships in judo held earlier this year.



TERRY MILLER

In the latter championship he competed against representatives from approximately 60 other "Big Ten" and independent universities that sponsor judo. The M.S.U. team, of which Terry was captain, won the team championship.

Terry lives with his parents at 4843 Lakeside Drive, Perrinton, Michigan.

solvents to inhibit corrosive attack on metals; (7) GRANODRAW No. 72, a new chemical immersion process which forms an adherent, zinc-iron phosphate coating on steel to facilitate cold mechanical deformation.

All seven have good market acceptability, according to reports—so-o-o-o-have another coffee, boys, for we understand there are a few more new products hatching in your chemical incubator.



Joe Rocco



George Stewart



Edward Rodzewich (l) and Walter Dudlik



John Troup (l) and John Curran



Tom Day



Joe Hudson



Doug Blosser



Jim Thirsk



John Naudasher



The Roccas (l) and Mancinis



Merv Hubbard



The Dudes (l) and Thirsk

Amiben, Granodine, Golf League Co-Champs

Amiben, first half winner (40 points) and Granodine, second half winner (34.5 points) competed to a stand-still in the Amchem Golf League play-offs, Monday evening, August 21, at Montgomeryville Golf Club. League officers declared both teams co-champions for the 1967 season.

Pitted against George Stewart (Amiben), Gabe Mancini (Granodine) scored a 46 to George's 57, while Joe Rocco (Amiben) scored a 46 in defeating John Troup (Granodine) by one stroke. Paul Moneglia (Granodine) with a 48, beat Ed Rodzewich (Ambien) also by one stroke. Tom Day (Amiben) had a 49 and Doug Blosser (Granodine) a 56 in their match. Thus each team produced three winners in the play-off to cause the tie.

In regular season play, which started on May 1, and ended July 1, the teams finished in the following order—first half: Amiben, Ridoline, Envert, Rootone, Granodine, Weedone, Rodine*, Alodine*. Second half: Granodine, Envert, Alodine, Rodine†, Rootone†, Ridoline†, Weedone, Amiben. Highlight of the season was a hole-in-one scored by John Naudasher on July 31.

Trophies were distributed to the following members of the winning teams at the League banquet held September 30 at the Oak Terrace Country Club, Maple Glen, Pa. **AMIBEN:** Joe Rocco, Bill Delanty, George Stewart, Tom Day, Ed Rodzewich, Walt Dudlik, Joe Hudson, and Roy Johnson. **GRANODINE:** Gabe Mancini, Walt Krogh, John Troup, Paul Moneglia, Doug Blosser, and John Curran. A special trophy went to Naudasher for his hole-in-one achievement.

The season's low gross trophy was won by

Joe Mancini with a nine-hole 36. Low nets of 29 were scored by Paul Moneglia (41-12-29) and Andy Kepich (43-14-29).

Participation in the annual tournament, September 16, was held down to 13 competitors by a drizzly day, soggy field and threats of a hurricane. Despite conditions some fairly good scores were turned in. Joe Rocco was low gross winner with an 87, and the following low net scores were turned in: Wally Dragani 71 (89-18), Tom Kurtz 72 (94-22), Max Zebich 75 (98-23), Jim Thirsk 75 (103-28). Other players and their low net scores: Andy Kepich 78, Tom Rogers 83, Dwight Buczkowski 82, John Troup 82, Joe Hudson 80, Merv Hubbard 79, Fred Unger 78, and George Brumbaugh 83.

Good food, peppy music, dancing and genuine merriment marked the banquet climaxing the season. Joe Dudek, as MC, held down the spot usually occupied by Jim Thirsk, who sat a few feet away from Joe at the speakers' table.

Election of officers for the 1968 season took place immediately after the dinner, with the following results: President, Jim Thirsk; Secretary, Merv Hubbard; Treasurer, Karl Weigand. The Golf Committee is composed of Jake Landis, Jack Campbell, Ed Rodzewich, Walt Dudlik, George Brumbaugh, Ralph Lili.

As usual, interest and enthusiasm in the Golf League was stimulated by the tireless efforts and devotion of Jim Thirsk and a few of the other players who have been around since the League was founded.

*Tied for seventh place

†Tied for fourth place

This Issue's Guess Who?



Older readers will have no trouble identifying the attire worn by the subject in this issue's "Guess Who" as belonging to the Rudy Vallee, Paul Whiteman, et al era. They will, however, have a little trouble in recognizing the wearer.

The picture, taken on a pleasure boat in the Straits of Mackinac, is that of a life-long resident of the Ambler area. Since that time, the part in his hair and his middle have both widened considerably. But he still smiles graciously and is the same bonvivant as when he posed for this snapshot.

In the short time he has been with Amchem, he has made a wide acquaintance with the Company's personnel—both male and female—due in part to the nature of his work. Do you know him? (Answer in the next issue of the NEWS.)

Ruth at Fire Conference in San Francisco

Eddie Ruth, Maintenance, attended the 94th Annual Conference of the International Association of Fire Chiefs, October 16 to 21, at San Francisco, Calif., and took an active part in major discussions on a proposed resolution which called for outlawing untreated wood shingle and shake roofing materials.

GROWTH CHAMBER

Continued from page 3

To obtain the high degree of control necessary for studying the effect of a chemical on plant growth under various conditions, a plant growth chamber offers a number of advantages. With such equipment it is possible to duplicate climatic conditions in any part of the world. Such conditions can be repeated at any time of the year so that similar experiments give similar results whenever they are run. Anyone who has ever done such studies in a greenhouse knows of the considerable variation in results between experiments conducted in the winter and those carried out in the summer. Also, because of the uniform conditions within a growth chamber, it is often possible to greatly reduce the number of replications necessary to give statistically significant results. In some experiments a single plant will give as much information as a large replicated field trial would.

Plant growth regulator research is the area in which this sophisticated equipment is most valuable. Initiating or inhibiting flowering in many plants is controlled by the length of the night period. By setting conditions to keep plants vegetative, we can study the effect of chemicals for inducing flowering. The reverse is also possible; by setting the proper conditions we can study inhibition of the flowering response.

Imparting cold resistance to plants with chemicals is complicated. We know that the rate of freezing and thawing, the time of exposure to the freezing temperature and previous exposure to low temperature all affect the ability of a plant to survive a freeze. Ability to control all these factors in our studies should help us find ways of making plants more resistant to such adverse climatic conditions. A controlled environment chamber is also most useful in studying transpirational water losses from plants, high temperature resistance, drought resistance, and factors affecting fruit set and yield.

Growth Area of 32 Square Feet

Two of the most recently designed plant growth chambers have been installed in the new facilities at Amchem's Research Farm in Ambler. Each chamber has an effective growing area of 32 square feet. Two full-length doors on each side of the cabinet provide easy access. For very critical experiments there is a cutout in front of each door that allows the researcher to work inside the chamber with the doors closed.

Light quality approximating that of sunlight is obtained from a mixture of incandescent and fluorescent lights. Since the lights are controlled by a series of time clocks, not only are we able to control the photoperiod, but we can also approximate sunrise and sunset by turning the lights on or off in stages. At full light intensity the plants receive approximately 3000 foot candles of light. However, this intensity can be controlled either by turning out some of the lamps or by lowering the platform on which the plants are placed.

The temperature within the cabinet is controlled over the entire growing area with an accuracy of $\pm 1.0^\circ\text{F}$. Since most plants show a true thermoperiodicity it is necessary to maintain different day and night temperatures. This is accomplished automatically by a programming controller. With this type of control, any temperature required can be set up readily by cutting a new cam that follows the desired temperature program. The cabinets are also furnished with humidifying and dehumidifying equipment which permits control of relative humidity over a wide range with an accuracy of $\pm 2\%$. Since the wet-bulb temperature is also regulated by a programming controller, the relative humidity can also be varied through any desired cycle or can be maintained constant through any temperature cycle.

To maintain such accurate conditions the equipment must handle a large volume of air; under normal working conditions the entire volume of air within the chamber is completely changed 9 times every minute. In spite of this, air velocities are less than one mile per hour and leaf flutter is almost nil. If desired, the carbon dioxide concentration can be maintained at any level by auxiliary equipment.

While all of the factors discussed so far can be controlled easily by automatic equipment, true soil moisture cannot, and still remains one of the greatest variables. To maintain the best possible control of soil moisture, the pots are checked several times a day by a technician and water is applied as needed.

With such excellent facilities it is now possible to study conditions which may have caused a herbicide to fail, so a shortcoming can be corrected or recommendations for using the material can be improved. Our research in the field of growth regulators should also progress at a much faster rate now that we can control most of the factors affecting plant growth and development.

Introducing New Members of the Amchem Stork Club

JEFFERY ALLEN KUEHNER

August 16, 1967

Father: Mark Kuehner (MCD Research)

KRISTIN ELIZABETH MERCER

July 15, 1967

Father: Jack Mercer (MCD Sales)

SCOTT DAVID MEYERS

August 2, 1967

Father: Carl Meyers (Construction)

CHERYL ANN NUSS

July 11, 1967

Father: Donald J. Nuss (Maintenance)

THOMAS H. VOGL, Jr.

August 2, 1967

Father: Thomas H. Vogl, Sr. (MCD Sales)

Condolence

We wish to express sincere sympathy to Mrs. Edna Lloyd, MCD Chemical-Technical Services, on the death of her husband, the Rev. Frank W. Lloyd, Sr., July 4, in Sacred Heart Hospital, Norristown.

Rev. Lloyd was interim pastor of the First Presbyterian Church of Kensington, Philadelphia. He formerly was pastor of Wissahickon Presbyterian Church, Roxborough, from 1949 to 1959.

Born in Philadelphia, he was a son of the late Griffith and Mary Ellen Wolfenden Lloyd.

He was a graduate of Temple University, Class of 1934; and the Theological Seminary of Princeton University, in 1937.

Rev. Lloyd's first charge was the Presbyterian Church of Columbus, N.J., in 1938, which he served until 1943 when he became pastor of the First Presbyterian Church of Burlington, N. J. He was a member of the Philadelphia Presbytery.

Surviving in addition to Mrs. Lloyd is a son, Frank W., Jr., a student at the Eastern Baptist College, St. Davids.

Funeral services were held July 7, at the First Presbyterian Church, DeKalb and Airy Sts., Norristown. Interment was in Friends Southwestern Burial Grounds, Upper Darby.

Welcome to Our New Employees

Hired since the last issue of the AMCHEM NEWS and prior to November 1, 1967

NAME	HOMETOWN	ASSIGNED TO
JAMES L. BEST	Willow Grove, Pa.	ACD Packaging
CATHIE BOSTON	Warminster, Pa.	Advertising
PAUL E. BURGER	Doylestown, Pa.	Engineering
ANNA B. CASTNER	Ambler, Pa.	ACD Sales Office
LOUISE FREY	Ambler, Pa.	Accounting Office
GARY B. FUESS	North Wales, Pa.	ACD Sales
ROBERT J. GOLDSTICK	Philadelphia, Pa.	ACD Lab
ALAN E. GRILLEY	Lansdale, Pa.	MCD Sales
DOROTHY A. HOBENSACK	North Wales, Pa.	ACD Research Farm Office
JUDITH HOFMANN	Norristown, Pa.	Plant Manager's Office
HOPE E. JOHNSON	Ambler, Pa.	MCD Sales Office
THOMAS R. KAPUSHINSKI	Hatboro, Pa.	Shipping
ANNE M. KETNER	North Wales, Pa.	Accounting
CLIFFORD E. KINGSLEY	Norristown, Pa.	Accounting
RONALD KORSIN	Philadelphia, Pa.	MCD Research
JETER LAWRENCE, JR.	Ambler, Pa.	Construction
JOHN T. MAHONEY	Ambler, Pa.	MCD Research
CYNTHIA NIPPINS	Ambler, Pa.	Accounting
JOSEPH B. PALMER	Wallingford, Pa.	MCD Sales
MICHAEL J. RAFFAELE	Ambler, Pa.	Receiving
EDWARD J. ROLING	Clinton, Iowa	Clinton Plant
HAROLD A. SCHWARTZ	Wyncote, Pa.	Engineering
BETTY A. SERAGO	Ambler, Pa.	Accounting
ROBERT A. SMITH, JR.	Ambler, Pa.	Inventory
AMY SNOWDEN	Ambler, Pa.	Purchasing
EARL F. TATE	Ambler, Pa.	MCD Production
RONALD C. TIETJENS	Belford, N.J.	Eastern MCD Sales
FRANK R. VALENTI	Ambler, Pa.	Systems Engineering
WILLIAM C. VERSTRAETE	Blenheim, Ontario	R & D, Windsor

Brumbaughs Celebrate Silver Anniversary

George Brumbaugh, Manager-Product Performance Service, and his wife, Mary, celebrated their 25th wedding anniversary, October 24th.

The happy couple repeated their nuptial vows at a special Mass in the same church where they were married—St. Anthony's, Ambler—on Saturday, October 28.

Among those attending the Mass were Mr. Brumbaugh's brother, John, and Mrs. Brumbaugh's sister, Mrs. Stella Knipe, who were best man and

matron of honor at the original wedding ceremony.

In the evening, the Brumbaughs held an informal reception at their home in Hamilton Park, Ambler, for approximately 60 of their relatives and friends.

The couple are the parents of four children: Janet, who is married; Kathleen, employed at General Electric; George, Jr., a student at the University of Detroit; and Ronald, a fifth-grader.

Along the Party Line

Elected. GEORGE GARDNER, MCD Research, has been elected a Fellow of the American Association for the Advancement of Science. His notification of election stated: "This action is in recognition of your standing as a scientist."

★ ★ ★

Sick List. As of press time we're glad to report that Vice-President-Finance NAYLOR and ACD's ED LACKO, who have been hospitalized, are making rapid recovery from their illnesses.

Over There! We picked up this item from the *AMBLER GAZETTE*: "Among the many Americans studying abroad this fall is Patricia Jean Roberto, daughter of Mr. and Mrs. James Roberto, Rosemary Ave., Ambler. She is enrolled at L'Alliance Francaise in Paris. Miss Roberto is a graduate of Gwynedd Mercy Academy and Pennsylvania State University."

Her father, more familiarly known to most of us as JIMMY, is the top banana in Amchem's Shipping Dept.

ANSWER: The subject in our August issue's *Guess Who?* is Dr. Stan McLane, ACD's Assistant Director of Biological Research.