

THE AMCHEM NEWS

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AM-Gems

A Giant. Of all the great national heroes and statesmen of history, Lincoln is the only real giant. He overshadows all other national heroes. Lincoln was not a great general like Napoleon or Washington; he was not such a skillful statesman as Gladstone or the adroit Disraeli; but his supremacy expresses itself altogether in his peculiar moral power and in the greatness of his character. He had come through many hardships and much experience to the realization that the greatest human achievement is love. He was what Beethoven was in music; Dante in poetry; Raphael in painting; and Christ in the Philosophy of life.

—Leo Tolstoy

It is important to know what to forget and what to remember, not only in the past but also in daily life—remember the essential—forget the things which really don't matter.

—The Simple Life, by Charles Wagner

The great menace to the life of an industry is industrial self-complacency.

—David Sarnoff

The easiest thing of all is to deceive one's self; for what a man wishes he generally believes to be true.

—Demosthenes

A long dispute means that both parties are wrong.

—Voltaire

Nothing in progression can rest on its original plan. We might as well think of rocking a grown man in the cradle of an infant.

—Edmund Burke

Good breeding consists in concealing how much we think of ourselves and how little we think of the other person.

—Mark Twain

The greatest homage we can pay to truth is to use it.

—Ralph Waldo Emerson

The percentage of mistakes in quick decisions is no greater than in longdrawnout vacillations, and the effect of decisiveness itself "makes things go" and creates confidence.

—Anne O'Hare McCormick

DEFINITIONS!

GIRDLE: Defined as an accessory after the fat.

HANGOVER: Something to occupy a head that wasn't used the night before.

TONGUE: It weighs practically nothing but so few people are able to hold it.

Livermore Vapors Published by Veterans Administration Hospital, Livermore, California.



50th ANNIVERSARY MESSAGE from the Chairman

FIFTY YEARS is a long time in the life of any person or any business enterprise. Our Company reached the 50-year mark on February 21, 1964, so now we celebrate our Golden Anniversary.

In our first half century, we not only survived two world wars, as well as a great depression, but we managed to prosper.

Over the years the number of our plants has increased and their size expanded; our product lines have been diversified and multiplied.

Last year we posted new highs in sales, profits, total employment and payrolls. These achievements in 1963 stand as a tribute to the efforts of all the men and women employed by Amchem.

But physical and financial assets do not tell the whole story. Management must always be prepared to cope with conditions in a fast-changing business world. As an example of this flexibility, we need only cite our Company's Trust and Pension Plan funds for its employees, which currently amount to approximately three million dollars.

With a continuing policy of enlightened research, coupled with an aggressive sales policy, there is every reason to look to the future of our Company with optimism.

Leon Phibbs
Chairman of the Board

Condolences

We offer our sympathy to Mrs. Helen Skelton, Accounting, and her family on the recent death of her mother. We also extend condolence to Mrs. Dorothy DiLauro, ACD Sales, and her family on the death of her mother.

THE AMCHEM NEWS

Vol. 7, No. 1 April, 1964

Published by
AMCHEM PRODUCTS, Inc.

Ambler, Pennsylvania

in the Interest of AMCHEM Employees and Their Families

William A. Drislane

Editor



Pretreatment NEWS

OCTOBER, 1963

No. 34

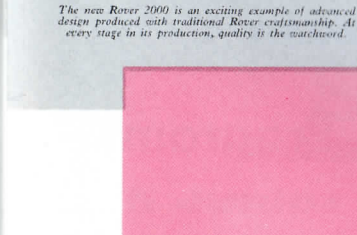
This is no Coincidence!



The MGB is indeed a worthy successor to the MGA. In fact 'Safety faster still'—and more comfortably—perfectly sums up its performance.



A most welcome addition to the B.M.C. family, the new Austin 1100 combines good performance with outstanding road holding, and running economy.



The new Rover 2000 is an exciting example of advanced design produced with traditional Rover craftsmanship. At every stage in its production, quality is the standard.

This issue of Pretreatment News features three cars of different makes and characteristics, each with a phosphating system designed to meet its particular requirements. One point the cars all have in common, however, is that they are all treated with I.C.I.'s 'Granodine' Phosphating processes.

'Granodine' 30 protects the new Rover 2000; the Austin 1100 gets its protection from 'Granodine' 20; a MGB, worthy successor of the outstanding MGA 'Granodine' 164.

Of course, there is a further point in common. The motor manufacturers who put their confidence in 'Granodine' have done so because years of experience have shown them that 'Granodine' protection is sound and lasting.

Look back at the October, 1958, Pretreatment News—'Granodine' 30 protected the 'new' Rover 3-litre five years ago and the Rover Company continues to have confidence in its fine phosphating action with the new Rover 2000. The October, 1961, Pretreatment News covered the pretreatment with 'Granodine' 164 of the Austin and Morris Mini range of cars, and the 'new' MGA. The present issue of Pretreatment News shows 'Granodine' 20 and 164 being used for the new Austin 1100, and the MGB respectively.

This can't be mere coincidence!

SUPERLATIVE MGB



Phosphoryl for people making that the MGB is not the first 'B' type MG. In pretreatment, the 1960 MG 1600 Mk III—the 'Tiger'—was the first MG car to be built specifically for racing. Only five of these machines were built; the rest were in fact produced. While its successor—the MGB—has no standard racing lineage, it is the triumph of the same, and the same engineering skill and one low cost item in design.

When the MGB—the MGB's predecessor—was launched in the October, 1961 Pretreatment News, under the heading 'Safety Faster', little did we realize that an even faster model would be following! Perhaps the MGB can be best summed up as 'Safety Faster Still'—and more comfortably. Capable of reaching 110 m.p.h., it has comfortable accommodation for two people plus room for each luggage. At 1.8-litres it is a delightful sports car with fine acceleration—used in its normal mode, together with comfort, makes it the sports car which is a joy to drive.

The safe car which is the design of the 'Granodine' plant, the after-climbing 30 feet from floor level, reach the first of the seven pretreatment stages. Here they receive a pre-wash with a cold water spray, after which they pass to the cleaning area where I.C.I.'s 'Ridolite' 75, a low-temperature degreasing agent, is used at 115°F. This cleanser is designed, as complementary to 'Granodine' 164 and a cleaning and phosphating process is thus provided.

The bodies are loaded on to the conveyor of the 'Granodine' plant, and after climbing 30 feet from floor level, reach the first of the seven pretreatment stages. Here they receive a pre-wash with a cold water spray, after which they pass to the cleaning area where I.C.I.'s 'Ridolite' 75, a low-temperature degreasing agent, is used at 115°F. This cleanser is designed, as complementary to 'Granodine' 164 and a cleaning and phosphating process is thus provided.

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A-Roving with the ROVER 2000

For the first time in its history the Rover Company has built a new factory specifically for the production of one model of car, 110,000 million has been invested in the new Rover 2000 project and production is taking place in the 400,000 square foot purpose-built assembly hall and paint shop at Solihull, Warwickshire.

The Rover tradition of quality and craftsmanship is of course maintained in the new Rover 2000, and an extremely unusual production technique has been introduced—the vehicle is fully mobile long before its painting is final.

The body panels are assembled round a 'base unit' into which all the chassis components, electrical equipment and ancillaries are first mounted. The vehicle, though at wheel-end, is mechanically complete and can be driven and tested in this state, and possible changes to finished paint surfaces is therefore prevented.

Sub-assembly and detail work on panels are being carried out concurrently, and thus the two major tasks—mechanical and painting—are taking place simultaneously and will be linked up towards the end of the production process.

At each assembly stage through tests are made. When assembly is completed the car is driven into the shaker test booth where, with each wheel rotating at a speed of 100 m.p.h., the car is subjected to a series of independent stresses set up by low frequency vibrations at each track. This action lasting five minutes simulates rough road conditions and gives each car suspension a severe shaking. Love

At the 'base unit' and panels continue on their largely automatic journey through the paint shop, but this is another interesting story.

With the high cost of petrol and maintenance these days, running economy is important to us all, and it is good to learn that the Austin 1100 should do about 40 miles to the gallon in normal everyday running. With a compression ratio of 8.5:1 you can get smooth and efficient running on either Premium or 'Mixtur' grade petrol, and working at a consumption rate of 40 m.p.g., this is estimated to give good running costs of just under 14d per mile.

Servicing will be cheaper too because the suspension and cooling systems are sealed for life, only four greasing points require attention and oil changes are only needed every 6,000 miles.

British

BOOST for Granodine

ALL FOUR PAGES of the October, 1963, issue of Pretreatment News, publication of the Paints Division, Imperial Chemical Industries, Slough, Bucks, England, are devoted to Granodine® conversion coating chemicals as used by three of the most popular English made cars: MGB, Rover 2000, Austin 1100. ICI is our MCD manufacturing associate for England and a number of other trade areas in various parts of the world. It is also the largest chemical firm outside the United States.

If you can read the reduced-sized type on the three smaller reproduced pages, you will note that ICI also makes Deoxylite® 10 and Ridoline® 75.

This is just one of the many instances that lend credence to Amchem's claim that just about every important car manufacturer in the free world uses Amchem pre-paint chemicals, and attests to the excellent promotional job being done by Amchem's International Division.



The New AUSTIN 1100

After years of the most successful car in the world, the Austin 1100 is now the most popular car in the world. It is a car that is built to last, and it is a car that is built to be driven. It is a car that is built to be driven, and it is a car that is built to last.

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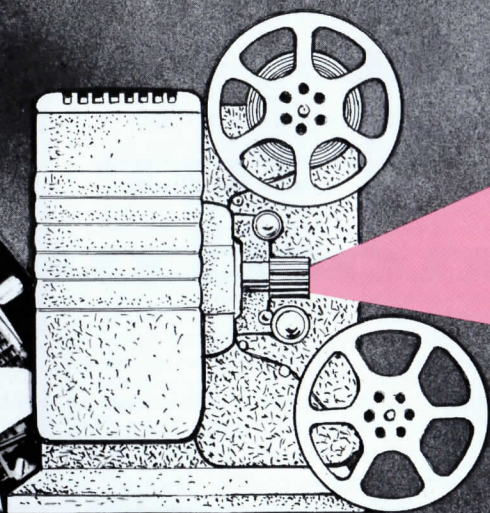
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Our Cover Story. Paul Kern (l.) and Ed Nusbaum (r.) stand beside cab of tank wagon loaded with Amchem Granodraw 2, the first such shipment to Philadelphia Steel and Wire Corporation, Philadelphia. Previously, PS&W bought a competitive product in 50-lb. drums. Now, this alert manufacturer uses a tank wagon of Granodraw 2 every six weeks.



This Film Is **"TAYLORED"** to Fit ACD'S Industrial Sales Program

JACK TAYLOR, Manager, ACD Industrial Sales, is a man who weighs his words, he also weighs his ideas. That's why, for several months, he toyed with the idea of making a movie to show the proper way to apply Amchem Enverts, the no-drift brushkillers. The Enverts are dispensed from Amchem's patented centrifugal Spra-disk®, designed by Tex Waldrum (Amchem News, Issue 1960).

The best way to prove the economy, effectiveness and simplicity of applying the Enverts is by actual demonstration. But hiring a helicopter and mounting a spraying rig on it is a too costly procedure to reach a potential user of the Enverts when a moving picture of the operation can accomplish the same, or even better, results. Thus the idea for an industrial movie was born.

Several sequences for the film, titled "Clearing the Way for Power," had already been shot by such sources as Virginia Polytechnical Institute, Blacksburg, Va.; Davey Tree Expert Co., Kent, Ohio, and Bartlett Tree Expert Co., Stamford, Conn., before Creative Visual Media studios, New York City, completed the shooting, editing and splicing the film. The film not only deals with the application of the Enverts but it also gives a little of their background. For this sequence, several scenes were made in the ACD Research Laboratories and Farm, with laboratory personnel performing experiments under the eyes of the camera.

Running commentary for the 720-ft., 20-minute film was supplied by Taylor, Ray Evans, ACD Advertising Supervisor, and Wildrick & Miller, the advertising agency for ACD farm and industrial chemicals. This script was developed from a day-long question and answer session between Don Lane, president of Creative Visual Media, Taylor, Evans, Tex and Ray Robinson, Amchem Machine Shop, who has been assisting Tex on the production of the Spra-disk®.

Current ACD Industrial Advertising features the availability of copies of the film for showing to line clearance and tree expert companies, utility companies and others who are interested or engaged in right-of-way maintenance.



Seraco group that toured Amchem offices and plant last month. Back row (l. to r.): Joe Chinnici, David Lee Wilson, Amchem Adviser; Jim Hoffner, Seraco Pres.; Roy Eberz, Amchem; Ken Woodward; Frank Boland, Amchem Adviser; Tom Meehan. Front row (l. to r.): Pat Ludman, V. P. Sales; Kathy Plumley; George Ashmore.

Amchem Sponsors

SERACO

a Junior Achievement Company

BEGINNING THIS PAST FALL, Amchem has sponsored a Junior Achievement Company in the North Penn area. The name of the company is Seraco. A Recognition Dinner honoring participants and sponsors in this admirable movement was held on February 11 at the William Penn Inn.

Attending for Amchem were Frank Boland, Ray Collmer, Gene Mendlow, Lee Wilson and Roy Eberz.

Frank, Gene and Lee, as well as alternates George Sawyer, Stan Gross and Ray, act as advisers to the "officers" and other personnel of Seraco, which presently is making and selling costume jewelry—bracelets, key rings, pins, etc.—all fashionably styled and modestly priced at 75¢ to \$1.25 plus tax. A display of this jewelry may be seen on the bulletin board in Building No. 1. The crafting and marketing of the jewelry is a switch from the wax candles which the "company" made and sold before Christmas. Thus the importance of diversification and the seasonability of products for a successful operation is impressed upon the young Junior Achievement business man and woman.

Seraco, located not too far from Ambler in a building of its own in North Wales, is one of over 3,900 such companies operated by more than 100,000 teen-age students in the United States. The same general principles are applied to the founding of a Junior Achievement Company as are used in establishing a regular, legitimate business. Capital is raised

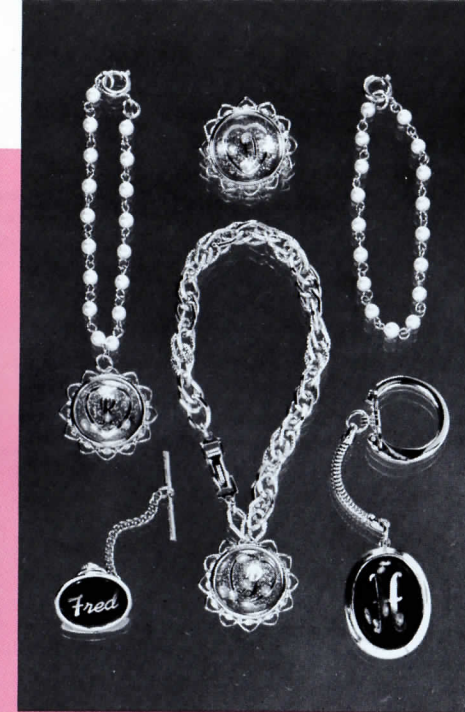
through the issuance and sale of stock at 50¢ a share until the amount of \$90 is reached in order that a charter can be obtained from the Junior Achievement National Headquarters in New York City. The charter costs \$2.00. Officers are elected, manufacturing facilities are set up, as well as a marketing and sales department. Wages (25¢ per hour), rent and other operating expenses are paid in addition to taxes and dividends, when earned.

At Seraco, Frank Boland advises on manufacturing, Gene Mendlow on marketing and Lee Wilson on the financial. Ray Collmer substitutes for Frank when necessary. In this way the young JA business man is introduced to the free-enterprise system in a practical, learn-by-doing way—a way that teaches the essentiality of profits; the importance of organization, co-operation, cohesion; the advantages and joy of operating autonomously without Government control; the fallacy and impracticality of Socialism; and exposing the exploitative aspects and deceit of the Communist system of economics.

A two-hour tour of the Amchem facilities was made by the Seraco group on March 26, during the Easter school holidays. Frank, Gene, Lee, George, Ray and Stan are to be congratulated for helping to preserve the American way of life, not to mention Amchem itself for its generous support of this commendable project.



Pat Ludman, V. P. Sales, discusses Marketing with (l.) Jack Breen, Amchem Advertising Director, and Gene Mendlow, Assistant Sales Manager MCD, Eastern District.





Ed Feather **Cheats Death**

*Car Completely Demolished
at Ambler Railroad Crossing*



ED FEATHER, assistant to Director of Purchasing Gene Snyder (*Amchem News*, September, 1963) miraculously escaped certain death when he was thrown clear out of his car after it had been hit by a commuter train at a crossing a couple of blocks from the Amchem Plant, Ambler. The accident occurred January 16 at approximately 5:25 when Ed was on his way home from work. After Ed had been catapulted from his seat, the train, which was traveling at about 45 miles per hour at the time of the accident, continued to push the car for several hundred more feet down the track, ending within a few feet of the siding that leads to the plant. He sustained severe lacerations of the forehead and skull, as well as back and shoulder injuries.

According to a report of the accident in the *Ambler Gazette* the following week, the railroad said an investigation showed the signal lights were not operating because of a defective contactor.

Amchem Personnel at Scene

Other Amchem employees, who live nearby or were also on their way home from work, arrived on the scene almost immediately after the accident.

As we go to press we're glad to announce that Ed has resumed his purchasing duties.

Through these columns Ed wishes to thank all his Amchem friends who were so solicitous for his recovery. He is especially grateful to those who visited him and presented him with a token of their thoughtfulness during his recuperation.

(Left above). Ed is stretched out and covered with blankets while awaiting ambulance to take him to hospital. Ray Montecino, International Division, is among those comforting Ed, while standing at right is Joe Mallozzi, Maintenance.

(Left below). Completely demolished car after it had been towed away from scene.

Along The Party Line

Heirs to Illness: DON SMALL, charter member of the ACD Research Lab, had an old war injury kick up on him necessitating a change in his status to "In-patient" at a local human repair shop. Result: Two pieces of shrapnel that had lain embedded in his hip for 19 years were removed. Don has them on display as a war souvenir.

Budding Journalist. ALAN COLLMER, 18-year-old son of RAY COLLMER, Supervisor of Maintenance, has burst upon the journalistic scene in a manner calculated to arouse the envy of many an experienced journalist. The *Cleveland (Ohio) Press*, March 3 edition features a "by-line" story of Alan's on a children's cultural, recreational and educational program

sponsored by the city of Cleveland. The space devoted to this picture-copy story is 3 columns by 14 inches. Alan is a freshman journalist student at Antioch College, Ohio, and works on the *Cleveland Press* as part of his curriculum.

★ ★ ★
Polite Kids. We have a nice letter here to

Continued on page 11

Susan Summers Is

RODEO STAR

*Daughter of George Summers,
ACD Sales Representative,
Captures World Runner-Up
Honors in Two Classes*

We cannot improve on the journalism of Dave Klement, *Oklahoma City Times*, who gives us an authentic account of the accomplishments of Susan Summers in the rodeo arena last season. Susan is the 13-year-old daughter of Mr. and Mrs. George Summers, Oklahoma City. George is an ACD Western District Sales Representative.

Henryetta's world champion cowboy Jim Shoulders, writes Dave, has nothing on Oklahoma City's own rodeo champion. (Henryetta is a town in Oklahoma). Shoulders has worked his way up to the role of rodeo's top money winner after years of competition. But this area's latest contribution to the rodeo arena has taken home two world runner-up titles after less than a year in the rodeo business.

And the new champ probably looks less the part than the most citified cowhand who ever straddled a bronc. That's because the cowboy in question isn't a cowboy at all, but a cowgirl—and a mighty pretty one.

She's 13-year-old Susan Summers, an eighth-grader at Putnam City Junior High and daughter of Mr. and Mrs. George Summers, 4101 NW 43.

Shoulders need not worry about competition from Susan for a few years. But some other male members of the rodeo set should worry.

At the world finals of the national "Little Britches" Rodeo, August 14-18 at Littleton, Colorado, Susan outrode most of



Susan Summers holds two of her many trophies. Saddle and belt buckle are also rodeo prizes.

the boys in her age group to take the runner-up title in one event and the same title in all-girl event. And she missed by only a few points the top junior cowgirl title which she won in a preliminary show at Medicine Lodge, Kansas, the week before.

The Little Britches Rodeo Association is a national organization incorporated three years ago, though the rodeos have been going on for over 12 years. It's set up just as the Rodeo Cowboys Association shows, with contestants qualifying in local shows for the national titles awarded at the annual Little Britches world finals rodeo.

Contestants are divided into two age groups, juniors, age 8-13, and seniors, age 14-17. Standard events include girls' and boys' bareback bronc riding, steer riding, and calf roping. In addition, girls and boys compete to-

gether in two junior events, goat-tail tying and junior pole bending.

The goat-tail tying event is a slightly revised version of calf roping. A goat is tethered to a 10-foot rope in the center of the arena, Junior division contestants, working against the clock, race to the goat, catch it, and tie a ribbon to its tail, then race back to the starting point.

Senior girls must throw and tie three legs of the goat, just as in the standard calf roping events.

Stock used in the riding events are yearling and two-year-old Brahmas or half-Brahmas, the rule book says.

Susan has been riding for four years, but has only been in the Little Britches competition one year.

During that year, she's won enough awards to fill a good-sized trophy case.

She started collecting points for the national title at the Hobart Little Britches Rodeo, the only one in Oklahoma, July 18-20. She took home the champion girls' steer riding trophy, plus a second-place award in goat-tail tying and third in barrel racing.

The next competition was the Medicine Lodge rodeo where she won a handsome saddle along with the top junior cowgirl title and a first-place trophy in girls' steer riding.

Then, at the Littleton Little Britches Roundup which preceded the world finals contest she took two more firsts, again in goat-tail tying and girls' steer riding.

She went into the world finals against 600 other contestants, where she won the coveted runner-up titles in those same two events and narrowly missed the top junior cowgirl title.



Vicki Dewlen Is First U.S. Exchange Student in Japan

WE HAD HEARD indirectly that the 16-year-old daughter of Jim Dewlen, ACD Sales, Western District, had been an exchange student in Japan. At our request Jim has produced the following story which he has done in excellent journalistic style. We print it just as it came to us.

Vicki Dewlen, 16-year-old daughter of Jim Dewlen, has just returned from Tokyo,

Japan, after a four months stay as an exchange student. While there she attended Aikoku Girls' High School, a private boarding school of 4,000 students, and lived with the principal and his wife, Mr. and Mrs. Kosabura Oda.

According to the Japanese Consulate in Los Angeles, this was the first year that a high school student had entered Japan as an exchange student. Vicki was chosen to represent Riverside, California, after a battery of scholastic and psychological tests and upon recommendation of the faculty of Ramona High School.

During her freshman year at Ramona, she won first place in the speech contest, was secretary-treasurer of her class and had a lead in the high school's operetta. In her sophomore year she was very active in speech and debate, being the first girl sophomore in Ramona's history to earn the "Merit of Distinction." Vicki was sophomore representative on the Girls' League Board and maintained a grade point average which placed her on the honor roll and made her eligible for the California Scholarship Federation. She is a math-science major, taking "honors" (accelerated) courses.

Just before her departure on June 21st, Vicki was awarded the gold statue for the most outstanding sophomore girl. Active in sports she was on the swimming team and placed in competitive events.

Six-day School Week

In Japan, there was little time for lei-

sure, as she attended school from 8 to 5 each day and 8 to 4 on Saturdays, taking such varied subjects as Japanese conversation, Japanese language, judo, fencing, mathematics, bio-physics, cooking, Japanese kimono making, Japanese brush writing, art, Japanese flower arranging and learning the art of Japanese tea serving . . . all these courses were taught in Japanese. On top of this she taught a class in English twice a week, and squeezed in time to tour Northern Honshu, visiting its famous national parks and monuments.

Vicki found the Japanese people very friendly and generous. She was guest of honor at a banquet given by the Mayor of Sendai, and was also guest of honor at a geisha party where all of the geisha girls had to feel her blond hair—it being a rarity in Japan. She picked up the Japanese language quite rapidly for the simple reason there was no English spoken in her surroundings. In fact, upon her return to Riverside and high school, she found herself answering her French teacher in Japanese!

Adjusting to the extreme humidity and the typical Japanese food were the most difficult things that Vicki faced. Other changes from U. S. living were washing on a scrub board, ironing on the floor, bathing outdoors, and by September, no central heat.

One of Japan's leading magazines wrote a feature article on a typical day in Vicki's new life and a weekly series was run in a Tokyo newspaper on her life and her thoughts of Japan and its people.

Dan Shaw's Son Works on Moon Project at Stanford University

A REMOTE CONTROL SYSTEM which would enable scientists to drive an unmanned vehicle over the surface of the moon was developed by a group of engineers at Stanford University, Palo Alto, California, last year. The group, headed by Professor John E. Arnold and directed by Paul Braisted, included Sid Shaw, son of Dan Shaw, ACD Staff Assistant, Ambler.

The only problem confronting these scientists at the moment involves time—2.6 seconds to be specific. This is the time it takes a television picture to travel from the moon to the earth and a radio signal to return to the moon to direct the course of the vehicle. We're told that this problem is similar to trying to steer a car by giving orders to a blindfolded driver, but with this important distinction, that between seeing an obstacle and ordering the driver to turn, you must pause 2.6 seconds. During this lapse the vehicle could travel a certain distance on the moon unguided, and the distance would depend on the speed of the "moon mobile."

The Stanford group, working under a research grant from the National Aeronautics and Space Administration, should eventually solve this problem.

Sid Shaw is an honor graduate of Philadelphia Central High School.

He attended the University of Rochester, N. Y., on a navy R.O.T.C. scholarship



and was graduated with a B.S. in Mechanical Engineering in June, 1958. He was commissioned as an ensign and assigned jointly to the U. S. Naval Bureau of Ships and the Naval Reactors Group of the Reactor Development Division of the Atomic Energy Commission, Washington, D.C. Subsequently, he worked under Admiral Rickover as a nuclear engi-

neer on propulsion plant systems for nuclear powered ships. In June 1962 he was promoted to Lieutenant and in August of the same year was released from active duty.

Sid enrolled at Stanford University in September 1962, to do graduate work in mechanical engineering under a fellowship grant. He was awarded a Master of Science degree in Mechanical Engineering in June, 1963. Presently he is pursuing higher studies in Mechanical Engineering.

His primary area of interest is in control systems engineering. Because of this he chose to work on the "moon mobile" project at Stanford University.

Will Sail to Australia on Raft

Not all of Sid's time is devoted to investigating mobility on the moon. As a relief from this lunar project, Sid turns to an ancient but equally fascinating mode of transportation; namely, sailing. For the past year he has been building a sixteen-foot catamaran (a two-hull raft with sail) and this summer he plans to sail on a 35-foot trimaran (a three-hull raft) to Australia.



Lew Diehl Retires After 27 Years Service at Amchem

THAT INTIMATE SCENE in Plant Manager Smith's Office tells its own story—with a glint of sadness behind those spectacles, Laylond C. (Lew) Diehl gets a parting handshake and a kind word from Graham Smith on the day of Lew's retirement, last October 1.

Lew worked at various assignments in the Plant during his 27 years at Amchem, his most recent being in the Receiving Department.

Lew was born in Troy, Bradford County, Pennsylvania. As a young man he came to Philadelphia and worked as a carpenter for John McClatchy, pioneer builder and developer of the 69th Street Shopping Center and its surrounding residential area.

Lew moved to Ambler in 1924 just about the time Amchem located its plant in Ambler.

Farm life appealed more to Lew than chemicals, for his first association with Amchem is recorded as March 30, 1936. The intervening years were spent close to the soil on neighboring estates.

Rare Love for Dogs

Lew must have succumbed to the wonders and charm of canine lore early in his youth for his love for and devotion to his canine pets is expressed in the following composition which he authored.

Lew Diehl's Dog Cemetery

"When one of our pet dogs passed away many years ago I decided to set aside a small plot of ground as a cemetery.

"I made a box for the dog, padded the box, and laid the dog to rest on a pillow with the animal's favorite toys beside it. A small ceremony was held for the dog and then it was buried. I made a headstone for it as follows:

**NAME
AT REST
MAY GOD BLESS YOU**

"As three of our other pet dogs died over a period of years I followed the same procedure . . . After all these years I haven't forgotten them. Each Sunday I take my transistor radio out to the graves and play church hymns or the sermon to them—rain or shine . . . Another thing I do is put flowers on each grave the year 'round."

From his lofty domain on Penllyn Pike, Lew is "monarch of all he surveys," with an all-inclusive "bead" on the Company premises.

When we asked Lew how he felt about retirement, he said: "Once I stick my head out the door and look down at the Plant, I think I'm still working. But on a wet day when I see the fellows sloshing around in those yellow fishermen's outfits, I go back in the kitchen and have me another cup of coffee. And that pension looks mighty good, too."

Alek Bergs, Ferd Lieke, John McGrath also Become Pensioners



Aleksanders Bergs

Quiet, efficient Aleksanders Bergs retired last September 17, after 13 years as an employee of the ACD Research Laboratory. Alek was a former school teacher in his native Latvia before he joined Amchem.



Ferdinand Lieke

Ferd, a skilled craftsman in the Construction Department, sawed his last 2 x 4 and hammered his last nail at Amchem on January 31. He became a member of Frank Piacitelli's crew on August 27, 1956.

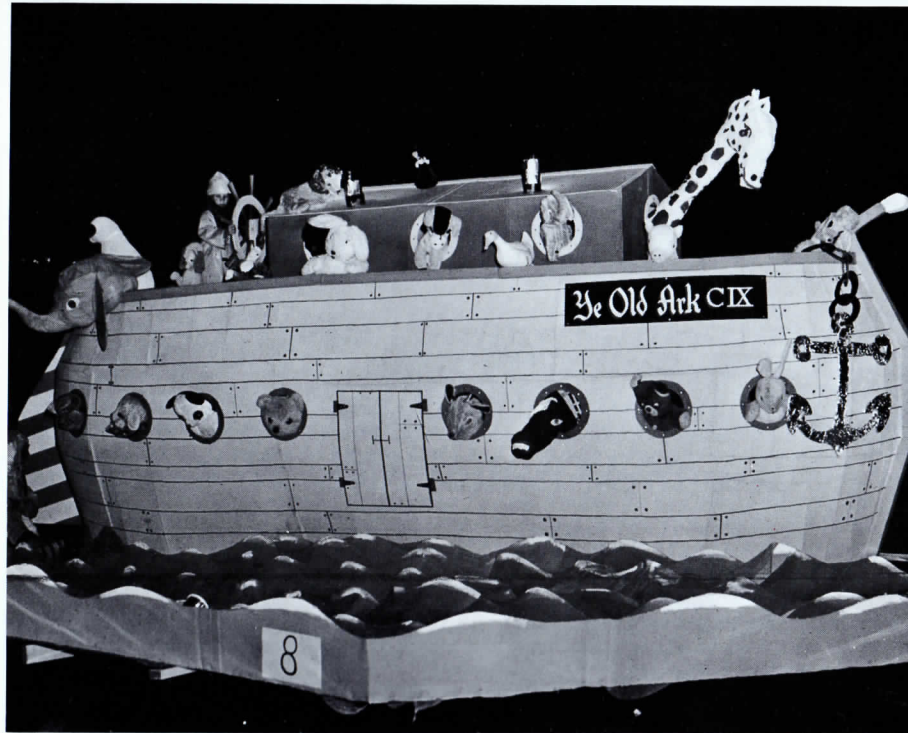


John McGrath

John kept the block- and bricklayers, as well as the stone masons, amply supplied with "butter" from his cement mixer since he first operated the "churn" for Amchem on April 24, 1951. He retired February 4.

To all of these men we wish health and happiness for many years to come.

Harold Collins Is **MODERN NOAH** Who Cops Prizes



NOT THAT WE WANT to put any ideas into Harold Collins' head, but if ever he decided to do a little "moon-lighting" to fatten the family budget, we're sure he could turn to constructing floats. Hal is an ACD Sales Representative, Eastern District.

In the Canoe Carnival, that annually highlights the aquatic recreational season at Medford Lakes, N. J., Hal's creation, a Noah's Ark, took both the Grand Prize and the Trail Prize in the 1963 celebration. The Ark, constructed of cardboard, plywood and other lightweight materials, was complete, even to the presence of the animals aboard—at least their heads

popped out of portholes or stretched over the Ark's gunwales. It measured 38 feet from stem to stern and had a 10-foot beam. An idea of its over-all size can be estimated by comparing it to the size of "Noah," impersonated by a neighbor's six-year-old son, who is the "helmsman" seen in the picture. The Ark represents a total of 60 man-hours labor.

Hal has not revealed what his entry will be in this year's event, but you can be sure of one thing, it will be even better and more original than his 1963 prize-winning Ark. Harold and Mrs. Collins and their 4 children are year 'round residents of Medford Lakes.

Weed Control Conferences Well Attended by ACD Research

Amchem again has been an extremely active participant in the various weed control conferences throughout the country. Beginning with the Northeastern, January 8-10, at the Hotel Astor, New York City, followed by the Southern, in Jackson, Miss., January 15-17, the Weed Society of America, February 10-13, at Chicago and, as we go to press, the Western at Salt Lake City, March 25-27, Amchem's ACD Research personnel have been living out of a suitcase.

At the Northeastern, papers were given by Mel Sutherland on "Residue Analysis and Its Significance to You"; by Anson Cooke and Dick Hart on "Tomato Responses from Foliar Application of Various Amiben and Dinoben Formulations"; and by Roy Johnson, in collaboration with I. C. Reiger, Northeastern Forest Experimental Station and W. E. Sopper, Penn State University. Roy's paper entitled "Control of Reparian Vegetation with Phenoxy Herbicides and Their Effect on Stream-flow Quality," was adjudged the best paper of the Conference and won the \$100 prize. Anson Cooke presided at the

afternoon session of Agronomic Crops section, January 9. John Gallagher, elected chairman of the Sustaining Membership committee, also took part in the panel discussion on Aquatic Herbicide Screening. Those attending were Nancy Achuff, Bill Allen, Bob Beatty, Russ Bishop, Anson Cooke, Walt Dudlik, Barbara Emerson, Wilbur Evans, John Gallagher, Dick Hart, Jake Landis, Stan McLane, Dick Otten, Harvey Raman, Don Small and Mel Sutherland.

The Southern Conference, of which John Gallagher was chairman of the Developments from Industry section, was attended by Bill Allen, Bob Beatty, Russ Bishop, Anson Cooke, Walt Dudlik, Wilbur Evans and Cliff Mitchell. Dan Chisholm, ACD Sales, was also present.

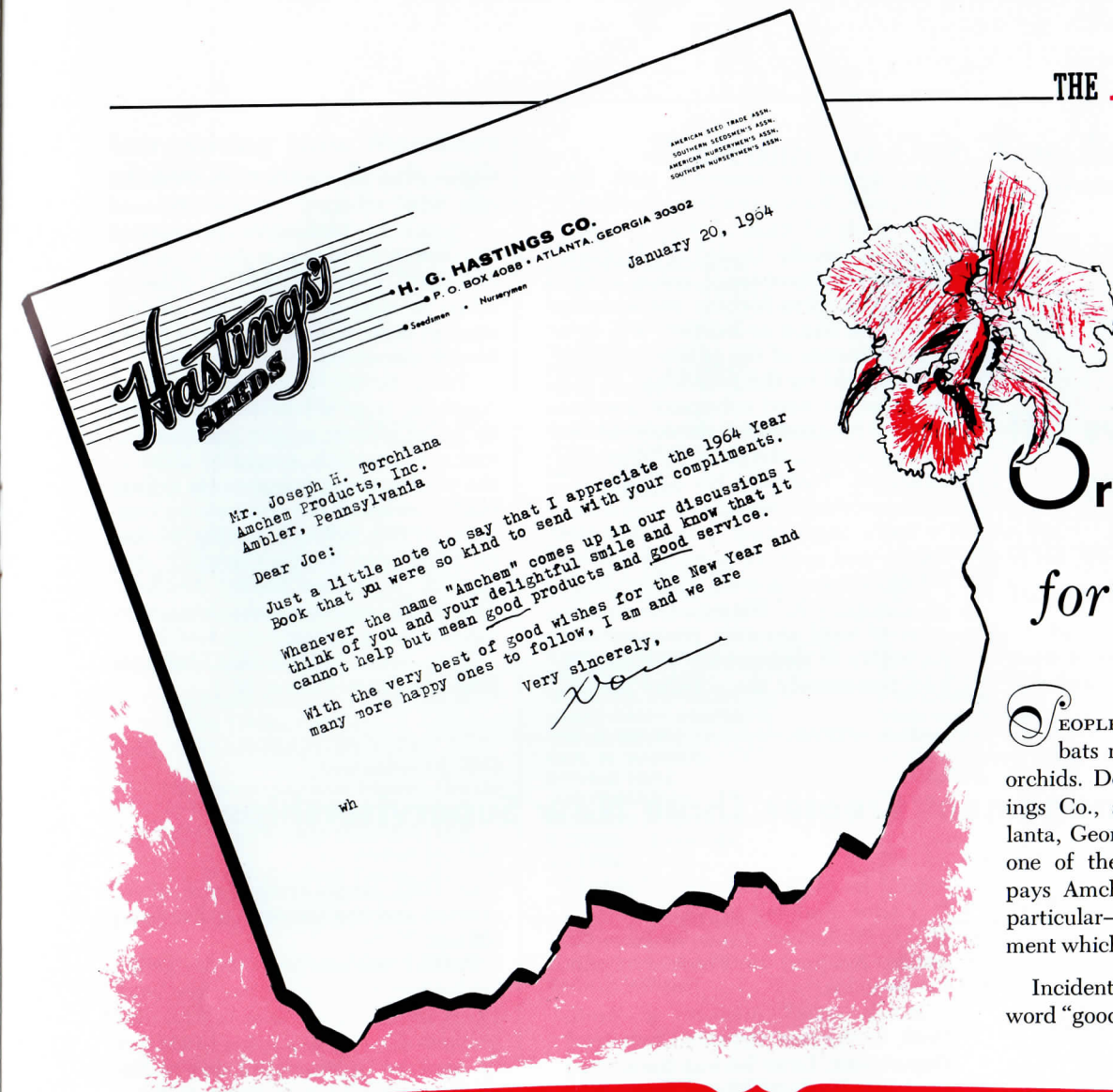
The Weed Society of America Conference not only served its primary purpose but also provided the scene for the ACD Research Annual Spring Development Meeting. At the WSA Conference Bob Beatty, first President of WSA, and probably its most popular member, was chair-

man of the nominations committee, announced the elected delegates and presented the new offices at the awards banquet. As the only representative from private industry, Dick Fosse served on the Executive Committee, while Stan McLane was a member of the Necrology Committee. Dick, together with Ken Dunster presented a paper on "PYRAZON, a Promising New Herbicide for Horticultural Crops and Sugar Beets."

Mel Sutherland also gave a paper entitled "A Technique for Measuring the Rate of Release and Distribution of Amiben Granules."

Amchem representatives at WBA were Bill Allen, Bob Beatty, Russ Bishop, Dale Bush, Anson Cooke, Walt Dudlik, Ken Dunster, Dick Fosse, John Gallagher, Dick Hart, Roy Johnson, John Kirch, Stan McLane, Cliff Mitchell, Dick Otten and Mel Sutherland. Maurie Turner also dropped in for a couple of sessions.

Attending the Western Weed Society Conference were Ken Dunster, Dick Fosse, John Kirch and Mel Sutherland.



Orchids for Joe

PEOPLE ARE PRONE to hurl brickbats more often than to pass out orchids. Don Hastings of H. G. Hastings Co., seed- and nurseryman, Atlanta, Georgia, we're happy to note, is one of the exceptions. Mr. Hastings pays Amchem—and Joe Torchiana in particular—a very nice written compliment which we reproduce in miniature.

Incidentally the underscoring of the word "good" was done by Mr. Hastings.

Along the Party Line

Continued from page 6

RAY EVANS, ACD Advertising Supervisor, from Paul Hickman of the *Progressive Farmer* magazine, who in turn acknowledges a letter from EMORY McKEITHEN's nine-year-old daughter Dede. Emory is an ACD Sales Representative, Southern District.

Dede's letter, a thank-you note for a mail box bank given her by Smith Mosely of *Progressive Farmer*, reads in part: "I am nine-years old and in the fourth grade. Ramsay (her brother) is three-years old. I am writing this letter for both of us since he is only a little boy. Thank you again."

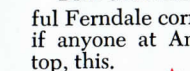
This observance of the little amenities of life is a pretty good indication that the McKeithen kids are welcome visitors at the homes of friends and neighbors.

Ferndale Fodder: The following item is a contribution by RAY NEILSON. The Midwest District personnel has hung a moniker on fellow-worker JOHNNY LINDEN, MCD Sales Supervisor. As Ray relates it: "It seems that 'Soapy' Linden bought the large economy size of aerosol shaving cream and packed this in his overnight case with some metal panels,

which apparently tripped the nozzle. Anyway, 'Soapy' Linden arrived by air in Birmingham, Alabama, with a suitcase full of shaving soap and a red face! He was so upset on the return flight that he left his overcoat and car keys in Alabama. He now is considering an electric shaver and using a cab to get around in."

"Klever" Kegler—DICK GROSSMAN, an employee of Amchem's Ferndale Plant, rolled a 257, 212, 278 for a total of 747 while leading his team to a shut-out victory in competition in a Detroit bowling league. Ray Neilson, our faithful Ferndale correspondent, wants to know if anyone at Ambler has topped, or can top, this.

DICK GROSSMAN



House cleaning! SAM CATERISANO was trudging along in the vicinity of 13th and Arch Streets, Philadelphia, in the dusk of a blustery evening not too long ago, when he spied a sheet of paper that looked strangely familiar. For the moment he just

couldn't recall where or when he had seen it before, and lying there in the street in the dusk the type was not readable, so Sam picked it up. It was the cover of the 40th Anniversary number of the ACP News, published in February, 1954. The printer of that issue was evidently doing a little cleaning up in his shop and the paper escaped from a nearby trash barrel.

Officer: BARBARA EMERSON, ACD Research, and Editor of *The Hormolog*, Amchem's external publication devoted to "progress being made in the field of plant hormones," has been elected vice-president of the Garden Writers Association.

He talked! Participating in a four-man panel discussion at the October Meeting of the Foreign Traders Association of Philadelphia was International Division Manager Warren Weston who discussed licensing and royalties, a subject on which he is very well versed. The general topic of the panel was *Four Intriguing Ways to Greater Profits in your Overseas Markets*. Place was the Sheraton Hotel.



Persistency Pays Off for Tom Crowley

Wool Scouring Sales Rep Lands Stubborn Account

After almost ten long years of what would have been frustration and dis-

appointment to someone with less fortitude, Tom Crowley, Amchem's personable salesman of Wool Scouring products, finally landed a stubborn, but lucrative account. A policy of this particular firm forbids mentioning either the name or location. But as a true indication of the esteem in which Tom is held by the proprietors of this business, we need only point out that he (and his guests) are the only visitors having access to the plant. To other outsiders it's "Positively No Admittance" to the working area.

Tom's ingratiating personality, integrity and spirit of helpfulness were strong factors in gaining the confidence of "Company X." His extensive knowledge of wool scouring processes and his ability to demonstrate intelligently and persuasively the superior advan-

tages of the Amchem's Ridosol® scientific wool scouring process climaxed 10 years of inoffensive persistency. Thrown in, of course, is that little psychological gift that tells a salesman when to stop or pursue his product story in order to clinch a sale or invite further discussion at a later date.

Tom, in his twentieth year at Amchem, is an acknowledged authority on his favorite subject and his opinions are constantly sought by those in the wool scouring industry. He is thoroughly aware of the problems encountered in this industry, having worked for Forstmann Woolen Company, Passaic, N. J., before joining Amchem. This double exposure makes him a very valuable man, indeed.

Tom, wife Isabella and daughter Julianne live in Clifton, N. J.

Plant Management Creates Three New Supervisorships

Boland in ACD Production; Leonard H. Carter, Assistant to Adolf Karcher, MCD Production; and William B. Pistilli, Assistant to Frank Piacitelli, Construction.

Morris joined Amchem in April, 1948, in the now defunct Cholesterol Department. Later he was transferred to ACD Production and became a Chemical Operator "Lead Man" in November 1953. He lives on Germantown Pike, Norristown, with his wife and 14-year-old son.

Carter started as a general helper in MCD Production in October, 1950. He was later transferred to ACD Production. He was made a Chemical Operator "Lead Man" in MCD, in

June, 1962. He is a resident of Penllyn, married and the father of a five-year-old son.

Pistilli (Amchem News, Sept., 1959) has been engaged in construction work all his life, and at one time had his own business. He was hired as a bricklayer by Amchem in May, 1952, but in November, 1953 he was made a "Lead Man" in the Construction Department due to his all-around experience. He lives on N. Ridge Ave., Ambler, with his wife and teen age son. The Pistillis also have three other children, all married. He is the father of Mrs. Nancy Gourley, who was employed in ACD Sales until recently, and brother of John Pistilli, who is a mason in Construction.

Carter, Morris, Pistilli Assume New Status

After lengthy consideration management decided that it would be to the best interests of the Company to create the positions of Assistant Supervisor in each of these departments: ACD Production, MCD Production, and Construction. Filling the positions are Harry C. Morris, Jr., Assistant to Frank

Ken Bridge Article Published in World Farming Magazine

Ken Bridge, International Division Agricultural Specialist, is the author of a four-page article which appeared in a recent issue of *World Farming*, a magazine devoted to agriculture on a world-wide basis.

Ken's opus deals with weed control in Chile—which, appropriately, is the title of the article. Ken gathered his information from the source, for he spent several weeks in Chile in 1963 investigating weed problems confront-

ing farmers and live stock raisers. While there, he also did considerable experimental work with chemical weed and brush control.

The article advances the point that due to the unique shape of Chile—2800 miles long by only 110 miles wide—there is a diversity of climate, crops and weeds. Thus, Ken deals separately with the weed problems in each area, and recorded the effects of different

formulations of 2,4,5-T in controlling or eradicating the various weeds indigenous to specific regions—north, central and south—of Chile. He documented his article with a series of pictures.

Ken's experience in Chile should develop, not only a favorable association between Amchem and Chilean agriculture interests, but also provide a broader market for the Company's agricultural chemicals in that country.

Introducing New Members of the Amchem Stork Club

(Not previously listed in *The NEWS*)

LINDA ANN CALVANO
... February 9, 1963
The Proud Amchem Parent: Donato Calvano (Packaging)

SCOTT THOMAS COLLINS
... June 12, 1963
The Proud Amchem Parent: Harold M. Collins (MCD Sales)

MICHAEL SCOTT COX
... March 14, 1963
The Proud Amchem Parent: Roy B. Cox (Production)

MARIA HERNANDEZ
... December 11, 1963
The Proud Amchem Parent: Raymond P. Hernandez (Production)

TIERNEY ELIZABETH MCINTYRE
... May 22, 1963
The Proud Amchem Parent: Donald J. McIntyre (MCD Sales)

MICHAEL H. RISOLIA
... September 21, 1963
The Proud Amchem Parent: Frank A. Risolia (Niles, Office)

GREGORY MICHAEL SAWYER
... September 14, 1963
The Proud Amchem Parent: George W. Sawyer (ACD Sales)

VINCENT HOWARD SCHROEDER
... August 24, 1963
The Proud Amchem Parent: Howard W. Schroeder (MCD Sales)

DAVID FREDERICK VOGL
... March 11, 1963
The Proud Amchem Parent: Thomas H. Vogl (MCD Sales)

FAITH ELIZABETH SWISHER
... March 4, 1964
The Proud Amchem Parent: Merwin Swisher (Receiving)

Welcome to Our New Employees

(Not previously listed in *The NEWS*)

NAME	HOME TOWN	ASSIGNED TO
RICHARD M. BAILEY	Spokane, Wash.	ACD Sales
LIELA FERN BEACHMAN	Royal Oak, Mich.	Office, Ferndale
BARBARA ANN BOSSERT	Lansdale, Pa.	ACD Sales
MICHAEL BRADY	Albany, N. Y.	MCD Sales
ILLA G. BRUSTMAN	Narberth, Pa.	MCD Dev. Tech. Writer
MAUREEN BUDENZ	Lansdale, Pa.	MCD Sales
DOROTHY MARIE BUSEY	Royal Oak, Mich.	Office, Ferndale
PETER L. CARD	San Jose, Calif.	MCD Sales
WILLIAM A. CRECO	Horsham, Pa.	Engineering
RICHARD McCAFFEE CROSSMAN, JR.	Oak Park, Mich.	Plant, Ferndale
JOHN J. DAMIANO	Springfield, Pa.	Chemist (Residue Lab.)
LOIS B. DETWILER	Norristown, Pa.	International Div.
PAUL D. FEZZEY	Berkley, Mich.	Plant, Ferndale
JOANNE CASSEL FREEMAN	Harleysville, Pa.	ACD Research
JOHN C. FUHR	King of Prussia, Pa.	Tech. & Patent Dept.
DAVID E. GRAF	Oakmont, Pa.	MCD Sales
HERBERT L. GROSHENS	Abington, Pa.	ACD Sales
HARRY R. JOHNSON	Fargo, N. D.	ACD Sales
GEORGE G. JOHNSTON	Monroe, La.	ACD Sales
CHARLES F. JONES	Norristown RD 1, Pa.	Plant
RALPH I. KAUFFMAN	North Hills, Pa.	ACD Research
DYANN KAY LANG	North Wales, Pa.	International Div.
FRANCIS X. McFADDEN	Philadelphia, Pa.	MCD Research & Dev.
EDGAR HARRY MEISTER	Shakopee, Minn.	MCD Sales
CARL E. MEYERS	Ambler, Pa.	Receiving
CARL M. NANNINI	St. Clair Shores, Mich.	Lab., Ferndale
DONALD NEILL	Philadelphia, Pa.	ACD Lab.
JOSEPH REDMAN	Willow Grove, Pa.	Maintenance
ANTHONY J. SERRATORE	North Wales, Pa.	Construction
RICHARD L. SWOBODA	St. Joseph, Mo.	Production, St. Joseph
WARREN C. TEEL	Topeka, Kansas	ACD Sales
MARIO R. TRILLO	Fremont, Calif.	Plant, Fremont
PAMELA S. TUCKER	Ft. Washington, Pa.	MCD Sales
SHARON S. UNDERWOOD	St. Joseph, Mo.	Office, St. Joseph
JUDITH NOREEN WALSH	Warren, Mich.	Office, Ferndale
ELIZABETH ANN T. WARD	Oreland, Pa.	MCD Sales
GEORGE WOLGEN	Essex, Canada	Plant, Windsor

Maintenance and Packaging Tie for Safety Honors

Maintenance and Packaging showed perfect scores of 100% in the Percentage of Improvement Safety Contest for the year ending December 31, 1963. As a result of the tie, both Departments were awarded prizes of their choice from a selection that included practical, as well as decorative, household gift items and also workshop tools.

Maintenance personnel who participated in the contest were: John Baranowski,

Philip Baum, George Blattner, Stanley Blichasz, Wolfgang Burlein, Arthur Carter, Jr., Alva Cassel, Stanley Clayton, William Cole, Lee Crouthamel, Valdo Dragani, Joseph Feckno, John Gaines, Robert Godorecci, Charles F. Jones, Albert Lear, David McInnes, Harold McKenzie, Raymond Robinson, Joseph Rocco, Edward Ruth, Leroy Smith, and Theodore Sosnowski. Harry Bailey and Raymond Collmer, supervisors.

From Packaging: James Ambrossia, Gertraude Amenth, Leon Bolig, Grace Brown, Donato Calvano, Fanny Cram, Martha Davies, Margaret Gagliani, Esther Hopwood, Joseph Mallozzi, Catherine McChesney, Louis Serratore, and Thomas Tedesco. John Horn, supervisor.

Incidentally, both these Departments tied for the Low Accident Frequency Rate, also with perfect scores.

MAINTENANCE GROUP

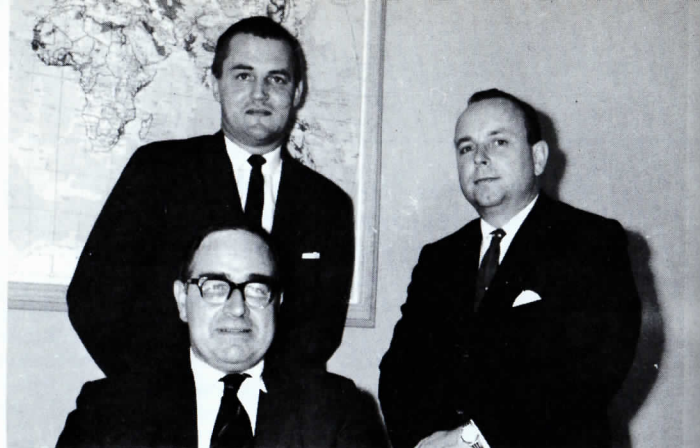


PACKAGING GROUP





Renews Contract. Dan Watkins (seated, r.), Managing Dir., Ivon Watkins, Ltd., New Plymouth, N. Z., renews manufacturing licensee contract in presence of (left to right) Wilfred Watts, Chairman of the Board, Ivon Watkins, Ltd.; Leon Cherksey, Chairman of the Board, Warren Weston, Mgr. Int. Div., and Gerald Romig, Pres., of Amchem.



Visitor from England. Dr. George M. Henderson (seated), Imperial Chemical Industries, Ltd., Slough, England. Standing are Stig Sasse (l.) and Warren Weston (r.), Amchem International Division.



John Nelson (l.) receives 15-yr. award presented by L. Shepherd, Plant Office.



V. P. Graham Smith (l.) receives solid gold watch and diamond pin from Pres. Romig for 25 yrs. service.

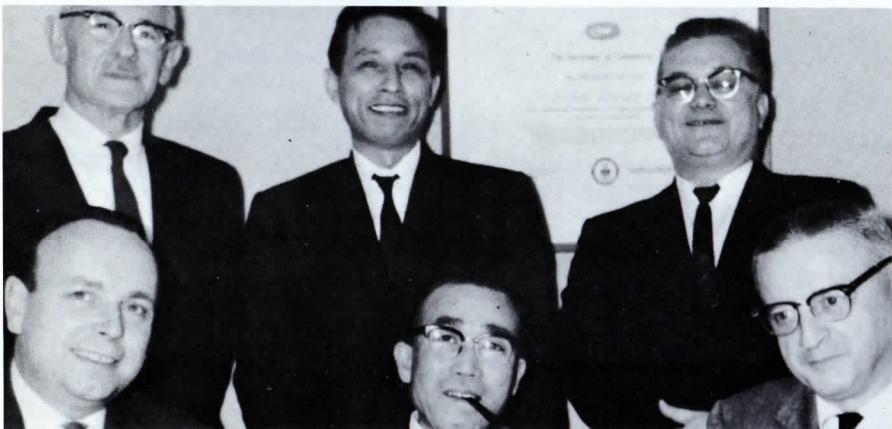


George Schneider (l.) receives 15-yr. award presented by H. Gehman, MCD Development.

Congratulations

These are the men and women of AMCHEM who have received Service Award Emblems between September 1, 1963 and April 1, 1964.

★ 25 YEARS ★		
Graham Smith		
★ 15 YEARS ★		
Anna Hagendorf	John Nelson	Harold Smith
Mildred Morris	Gertrude Scheetz	M. B. Turner
	George Schneider	
★ 10 YEARS ★		
Wolfgang Burlein	Robert Detwiler	Walter Krogh
Arthur Carter	Robert Entrikin	Warren Snyder
Arthur Dahl	Natle Giorgio	Carl Stella
	Arnold Walz	
★ 5 YEARS ★		
Douglas Blosser	Marie Leister	Edward Rodzewich
Joshua Braxton	Emma Norvig	Helen Skelton
Marie Costanza	Carolyn Orem	Lester Steinbrecher
Mervin Derrick	Theda Osterhout	Phyllis Wheeler



Visitors from Japan. Kenji Sato (back row, c.), Managing Director and Osamu Hirata (front row, c.) of Hokkai Koki Co., Sapporo, Japan, are flanked by Al Douty and Joe Dudek (back row); Warren Weston and George Otto (front) of Amchem.



Visitors from New Zealand. Johnny Johnson, Ivon Watkins, Ltd., signs International Div. Register under the gaze of Mrs. Johnson.



Harold Smith (r.) receives 15-yr. award presented by A. Karcher, MCD Production.



M. B. Turner (l.) receives 15-yr. award presented by Pres. Romig, ACD Sales.



Visitor from Australia. Nelson Johnston (c.), Director of R. & D. AGSERV, Australia, signs International Div. Register in presence of Ken Bridge and Warren Weston.



West Coasters: Jim Dewlen (l.) and Phil Watke (r.) ACD Sales, Western Dist., on one of their infrequent visits to Ambler offices.



Robert Entrickin (c.) receives 10-yr. award presented by J. O. J. Shellenberger (r.) and F. E. Wilson (l.).



(L. to r.) Harry Bailey, Wolfgang Burlein, Arthur Carter, Ray Collmer at presentation of 10-yr. awards to Burlein and Carter.



Natle Giorgio (l.) receives 10-yr. award presented by George Brumbaugh, Quality Control.



1963 Golf Team looks forward to '64 season: Front row (l. to r.) Merv Hubbard (Capt.), Joe Dudek, Frank Piacitelli, Joe Rocco. Back row (l. to r.) Gabe Mancini, Charlie Olivieri, Ed Piesciuk ('64 Capt.), Dick Otten, Walt Dudiek. Inset: Jim Thirsk, 1962 team capt.



Funny Man: Charlie Olivieri co-starred in comedy sketch with professional entertainer at Plant Personnel Christmas Party.



Walt Krogh (l.) receives 10-yr. award presented by L. Shepherd, Plant Office.



Warren Snyder (r.) receives 10-yr. award presented by L. Sabatini, MCD Development.



Carl Stella (r.) receives 10-yr. award presented by A. Sinclair, MCD Eastern Sales.



Marie Leister (l.) receives 5-yr. award presented by S. Caterisano, Accounting.



Carolyn Orem (c.) receives 5-yr. award from G. Smith (l.) and R. Rockstroh (r.), Plant Office.



Theda Osterhout (c.) and Phyllis Wheeler (r.) receive 5-yr. awards from R. Neilson, Ferndale Office.



Ed Rodzewich (l.) receives 5-yr. award presented by Dr. Reeves, MCD Research.

In Memoriam



WILLIAM W. ALLEN



GEORGE WHORNHAM

It is with deep regret that we announce the deaths of two of Amchem's most respected employees: William W. Allen and George Whornham, both of the Agricultural Chemicals Division.

Mr. Allen, Senior Consultant to ACD Research, died Saturday, April 4, in Chestnut Hill Hospital, Philadelphia. Just one month earlier, March 14, Mr. Whornham passed away in a hospital in his home town of Idaho Falls, Idaho. Mr. Allen and Mr. Whornham were in their middle sixties.

William Watson Allen

Mr. Allen was born in Philadelphia. He was a graduate of West Philadelphia High School and Temple University where he received the degree of B.S. in chemistry. Mr. Allen was hired by Amchem in June, 1945, as a chemist to supervise the manufacturing of the newly discovered 2,4-D. This was at the time when the ACD Research Laboratory was in its infancy (Amchem News, March, 1963).

The rapid success of 2,4-D and 2,4,5-T led to the expansion of all ACD facilities, including the Research Laboratories. At this juncture Mr. Allen became chief formulating chemist, and in 1955 he was promoted to ACD Chemical Director.

When illness prevented Mr. Allen from putting in a full working day, he was named Senior Consultant to ACD Research in November, 1960.

Mr. Allen had a broad, versatile background in the field of chemistry. Prior to his association with Amchem, he developed special ink formulations while in the employ of Curtis Publishing Company. As a member of Atlantic Refining Company's research staff he developed special asphalts with unique adhesive qualities used extensively in road and street paving.

His contributions to the field of herbicides are both numerous and

noteworthy. Among these are the first low volatile ester formulations of 2,4-D and 2,4,5-T; the first selected chemical brush killer containing 2,4-D and 2,4,5-T. Other successful formulations of Mr. Allen include Amitrol-T, a quackgrass killer; Weedone 638 brush-killer; Amchem Poison Ivy Killer; and the Amchem Envert Emulsions widely used in aerial spraying by utility and other companies and agencies with right-of-way weed and brush problems.

Mr. Allen was a member of the various Weed Control Conferences, as well as the Weed Society of America and the Herbicides Nomenclature Committee of the United States. He was not only universally respected and admired for his scientific knowledge, but he was personally well liked by both working associates and the entire herbicide industry.

He was an avid golfer who consistently posted good scores. He also possessed unusual artistic skill which found expression in his numerous canvases.

Funeral services for Mr. Allen were held Wednesday, April 8, in Philadelphia, with interment in Whitmarsh Memorial Park. The services were attended by Chairman of the Board Leon Cherksey, President Romig and other Amchem executives, as well as the entire ACD Research staff.

Mr. Allen is survived by his wife, the former Emma Louise Cobb; three sons, William, Jr. Detroit; Robert, Maple Glen, and Bruce, Lansdale. A daughter, Mrs. Raymond B. Featherman, Jr., of Narberth, also survives, as well as nine grandchildren, two brothers and a sister. To all of them we offer our most sincere sympathy.

George Whornham

Mr. Whornham was born July 22, 1900, in Beaver, Utah, where he graduated from Murdock Academy. He received his bachelor of science

degree in agronomy from Utah State University, Logan, in 1923, and his M.S. in 1932. From 1923 to 1929 he taught in the Utah public schools. After receiving his masters degree in agronomy he became a field agronomist with the Utah Experimental Station and later, as county agent of Malard County, he developed a program of soil improvement, seed production, fertilizers, irrigation, drainage—until he became associated with Amchem and moved to Idaho Falls in 1946.

His early background and his intimate knowledge of agricultural conditions indigenous to the areas which he covered made Mr. Whornham an ideal Sales and Service Representative. In addition, he was a most loyal, conscientious and industrious employee.

All of us who knew George Whornham, either intimately or just casually, were deeply impressed with his friendliness, sincerity and down-to-earth honesty.

He was a high priest in the Idaho Falls Later Day Saints (Mormon) Stake and a member of the Sunday school board as well as the stake board in Beaver.

The funeral, with Mormon Services, was held March 18, in Idaho Falls. Representing Amchem management at the funeral were Chairman of the Board Leon Cherksey and Vice President-Director of ACD Marketing M. B. Turner, both of whom were honorary pallbearers as well as were Ken Dunster, Dick Fosse, Ron Hanson, Phile Watke and Merrill White—all of ACD Western District—and Mr. Carl Schirmer, one of Mr. Whornham's loyal customers.

Mr. Whornham is survived by his widow, the former Hazel Wetherston, two brothers—Charles and Preston—and one sister, Mrs. Hattie Schwab. A son, George Maurice died some years ago. To Mrs. Whornham and her late husband's other relatives we offer our most sincere sympathy.