HIGH VACUUM SYSTEM FOR EVAPORATING METALS

Lawrence Dufraine

Laurence Dufraine died on August 30 at the age of 88. Mr. Dufraine has been employed at the Sprague Electric Company since April 14, 1939. He had just passed his twenty-year mark with the Company. He was employed in the Electrical Assembly Department.

During the long period of years that he was employed at Sprague Electric, he enjoyed a wide circle of friends and acquaintances since he had been employed at both the Beaver Street and Brown Street plants.

Mr. Dufraine was born in North Adams and was active in community affairs, especially on the Blood Donor Committee and in work with the Boy Scouts. During the war, he was active in the Civilian Defense Program. Mr. Dufraine was very fond of music, especially opera.

Besides his wife, Mr. Dufraine leaves three children, Lawrence, Jr., Richard and Nancy.

The process of vaporizing metals is accomplished by means of a high vacuum system for evaporating metals. This apparatus which was purchased a few months ago by the Sprague Electric Company is a vital part of laboratory equipment in research on capacitors. With the old equipment used in evaporating metals, it took three hours to accomplish what can be done more successfully with the new apparatus in twenty minutes.

The apparatus is often used to make delicate specimens used in the electron microscope which has the ability to magnify an object 5,000 times its actual size. Magnified to that extent, a particle of dust invisible to the naked eye would appear to be a large hoolander under the microscope.

The vacuum system for evaporating metals has many uses. A primary function at Sprague Electric is in research which is constantly being done to better capacitors.

In cameras and telescopes, a Florida compound is melted into a vapor to coat the lenses thus giving better transmission and cutting down reflection. In high precision optical equipment, many instruments have to be coated with a thin film of gaseous aluminum. Once the vapor strikes a surface, it condenses forming a thin film of whatever metal has been heated. The principle is much the same as steam coming from a tea kettle. When the steam is a bit of surface, it condenses into droplets of water.

In the actual workings of the apparatus, as much air as possible is taken out of the glass bell and then oil vapor steams down an aluminum column and is detected against film. This jet of oil vapor knocks the remaining molecules out of the system until as near a complete vacuum as possible is attained.

After the vacuum is measured, high current transformers are used to melt the metal which is placed in the glass bell.

WHAT DO EXPORT SALES MEAN TO YOU?

To be successful in exporting, an individual has to combine the qualities of a bashful but effective salesman, a financier, a credit man and an expert on international affairs.

In addition, of course, he must be thoroughly conversant with his product and his competition both American and foreign. A knowledge of foreign languages, while not essential, generally proves exceedingly useful.

Wholesale selling at home can be done by personal contact, the export salesman has to do a large part of his selling by mail. Therefore, it is essential that he understand the laws and regulations of nations in each foreign country. Since they differ greatly, constant study during the years 1950 will exceed the imports in 1949.

The greater part of these purchases abroad are made by the United States Government for the purchase of foreign countries. Both ultimately are financed by the American taxpayer. This means that every Sprague employee has contributed through his taxes toward the purchase of products from abroad and to the making of foreign loans. Now you have an idea of how the foreign buyers obtain dollars in their own country and why they are so keen on securing purchasing power in United States dollars.

In the Sprague Electric Company belief that in addition to supplying the various nations of the world with high quality American merchandise, this contributing to the progress of the friendly nations with whom we deal, also that we are helping to bring back home part of the dollars we spend or lend abroad.

We are not the only manufacturer engaged in this effort. All outstanding manufacturers operate an Export Department. It might be of interest to you to know how well American manufacturers are doing in bringing the dollars back home. A publication from the United States Department of Commerce informs us that in 1947 our exports amounted to $12,653,000,000 and in 1949, $13,374,000,000. The general belief is that in 1950 sales will exceed the imports in 1949.

You may wonder how we expect these foreign buyers to secure dollars in their respective countries when we are unable to assist them because of their inability to obtain dollars in their own country to pay for the merchandise. In some countries, they are in this position. Therefore, they are willing to make a deposit of their own currency in our name, equivalent to the value of the merchandise in dollars. Unfortunately, we cannot accept this arrangement because Sprague Electric Company has to pay wages, taxes, etc. in United States dollars. None of us would have any use for the dollars if we had to pay them over to Argentine pesos instead of dollars.

The goods we send abroad are done in foreign exchange. A publication from the United States Department of Commerce informs us that in 1947 our exports amounted to $15,340,000,000 and in 1949 we exported $12,653,000,000. In 1950 we shall probably export as much as we did in 1949. We shall export to the same extent as we bought in 1949. Of course, we not only buy from Chile but from every friendly nation in the world. In fact, total 1947 imports amounted to $7,158,000,000. In 1948, they were $5,329,000,000 and in 1949, $5,374,000,000. The general belief is that in 1950 sales will exceed the imports in 1949.

Continued on page 3
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BROWN STREET REPORTERS

"Every Sprague Worker an Assistant Reporter"

Published by the SPRAGUE ELECTRIC CO., North Adams, Mass.

WHY SHOULD WE?

Mark Twain once remarked: "Always do right. This will gratify some people, and astonish the rest." How fittingly this saying can be applied to today's Korean situation. Why are Americans giving their lives to save a small country like Korea which is situated way out in the Pacific? How many of us have ever heard of Taejon, Taegu or Pusan? Why is the 38th Parallel used as a dividing line and why won't we cross it? We have a right to ask these questions and we all should know the answers.

We are fighting for the United Nations which is an organization based on the principles in which we believe. When the North Koreans crossed the 38th Parallel and pushed their way into Southern Korea, American troops were sent to aid the South Koreans. Australia sent sections of her Air Force and now Britain is sending ground forces from Hong Kong. Gradually other freedom loving countries of the UN are sending help to the South Koreans. We said we would not cross the 38th Parallel as that was the established boundary but it has been hinted that the United Nations peace program for Korea must include among its objectives creation of a unified and independent country.

Come what may; it will be a long and difficult struggle. Proceede, we are fighting with what we have and will reinforce our position as men and material are made available. In order to keep our economy in tact, we will avoid competition Bernie, if you had your son, Bruce, play for you.

The soft ball game that was played, would really have to be seen in order to be appreciated. But, try to picture Art Van Snuhtung running to third base and picking up Nancy Pappulo, who was playing that position, and carrying her over the base under his arm, or, Jim Copeland holding the base runner by the seat of his pants, so he couldn't run the bases, when a hit was made by the next batter; or, Henry Pappulo putting on an Al Schact act in the Batter's Box.

The manager of Lake Shattsbury has agreed to put a large sign across the main highway, so that people like Paul Candell will not whiz by the place and get lost in the state of Vermont. Romeo Scerbo has decided that he will not be on two picnics at the same time again. He wore himself out, shuttling between the two parties.

Peter Mancuso was Johnny on the spot, as usual, rendering first aid to a young girl, who was involved in a minor mishap. Pete also proved to be an ideal father, caring for his daughter, Marie, all day.

The Social Committee is planning another picnic, to be held some time in October.

Submitted by Romeo Scerbo

T. V. Tidbits

By John Davis

We hear that Cal Galloway was recently tested and selected for the role of "Kingfish" in the TV. version of Amos 'n Andy. The popular orchestra leader is being considered for an hour-long variety show based on his old Cotton Club Revue.

Have you noticed as of August 20 that Barbara Quinn, the popular young caryat, has returned to her 7:30 to 7:45 spot? This girl in my estimation has one of the finest personalities that have graced television.

We noticed also that two of the most grue tingling dramas ever shown have returned to the television airways, namely Lights Out and Suspense.

Bob Hope will start a series of shows soon which will show such faces as Fred Allen, Groocho Marx and Eddie Cantor to mention a few who will be seen this one and a half hour-long shows on Sundays.

We haven't heard any word on the Friday Night Bowling Programs but hope they'll be back soon.

This fall see (If I have it straight) a great many top notch football games aired on Saturday afternoon. There will be such teams as Notre Dame, Army, Columbia and Pennsylvania. It sounds real good.

Wrestling from Chicago has proven to be a great bit of entertainment on Saturday evenings. The past few weeks, we've seen such artists of the "Grunt and Groan Game" as Lou Thex, Gorgeous George, Benito Garza, and even Don Eagle and Chief Lone Eagle.

Well, probably before I'm back again we'll be a whole host of new shows not aforementioned.

Good Tele-viewing

LETTER TO THE EDITOR

In a recent letter, Dr. Adolph Salo-ino expressed interest in the Hoosac Tunnel article which was published in the August 11 issue of the LOG. Dr. Salmonor corrected the statement made by the LOG that the Hoosac Tunnel is the third largest in the world. The Tunnel ranks seventh from the top.

Our thanks to Dr. Salmonor for his interest.—ED.
Who's Gonnaa Hold Over "Macbeth" for a Watch? "Waaaal," drawled the second farmer, "but I got a watch for you." "It isn't a watch, sir; it's a caddy," answered one of the men. "A watch is a timepiece, a caddy is a go-cart."

"And why do you keep looking at your go-cart?"

"I like to keep an eye on my go-cart, but if I don't keep an eye on it, it will get away from me."
Misc. Paper Finish

Birthday greetings to Mary Zeno and Bertha Jenkins.
Anniversary greetings to Josephine Mastalirc, Ruth Arrighini and Thelma Linsmei.
Maude Wasika enjoyed her vacation very much. We all had our fingers crossed hoping that "Anna Bella" (her ward) would bring her to Pennsylvania and back.
Gertie Deo is back after her wonderful trip by boat to Bermuda. She said it is a marvelous island.
Catherine Marta, is on her vacation at home.
Helen Harrington went to Vermont to be with her family for a weekend.
September is almost here and that means school time. Sandy Hirsh and her two vacation uncles will soon return for school. Good luck, Sandy.

A. C. Dry Assembly and Centrifuge

Those who recently have been on vacation are Jennie Marceau who traveled to Washington, D. C., and brought back many interesting souvenirs; George Beverly went to Millisso- nacker, Maine; Jack Sullivan traveled to Cape Cod and Norma Monette went to Boston and Lynn, Massachusetts.
Margaret Anderson, Millie Bionello, and Lily Tisdale stayed home during their vacations.
Harvey Vallieres went to Baltimore, Maryland Labor Day to visit son who is stationed there. He reported that he was at the baseball game, Sunday.
Joy Harrington enjoyed a weekend at Hampton Beach.
We all missed Bob Russell and Paul Langlois who were transferred to Marshall Street. Dolores Melito and Helen Ziemlak are also leaving us to return to High School.
We welcome Ann Moors, Elinore Soon, Helen Lighthouse and Marian Dugas to our department.
We extend our deepest sympathy to Rose Cantoni whose brother recently died.

Machine Shop

By John Walsh

W. A. Brown is vacationing at his camp in Vermont while W. Mauzer is enjoying a trip to Maine and New York, and E. Hinkel is taking several short trips.
The boys of the Machine Shop extend their sympathy to Alfred Dolphos in the death of his sister, Mrs. Roscicetti.

Engineering Dept.

By Fran Melito

It looks as though summer is back again, and the people who took their vacations in June and July wish they had wanted to take it now. Speaking of vacations, Betty Worthington enjoyed hers in New London, Connecticut.
Joe Barrier went to Old Orchard Beach on a one-week vacation.

Dry Tubular Finish

By M. Hauptfleisch and M. Faustini

Vacationers:
Leo Leminen—Lake Lauderdale, N. Y., Leowarde Tarmazur—At home
Julie Lincoln—New Jersey
Ruth Edmonds—At home
Easter Vetra—Atlantic City
Lillian Blair—Canada
Marjorie Hauptfleisch—Pennsylvania
Rhode Island, Lake Placid, Lake George, New York, Saratoga
George Crockwell and Mildred Faustini and her husband, Jack of the F. P. Department attended the Red Sox-Cleveland game, Sunday.
Raymond Monette traveled with the Berkshire Rangers to Keene, New Hampshire for the Drum Corps Competition.
We'd like to welcome your reporter's first attempt to cover the vacation news.

Sample Lab

By Isabel Hyndman

We'd like to welcome Marie DeMarco to the Department and say "so long" to Jimmie Heelan who is leaving us to return to high school.
Theresa Bissell and Isabel Hyndman attended a Boston Red Sox-Cleveland Indian ball game recently and the Red Sox came through again. Don Bellevue also attended that game. Bill Richards has returned here after working a few weeks at Beaver Street. It's nice having you back, Bill.
As I write this, Hazel Carpenter is enjoying her vacation. Jerry Lavigne is happy these days, his Red Sox are getting closer and closer to the top. Jerry's a real fan even when they're down he still sticks by them.

Auto Rollers Dept.

By Choo-Choo

A daughter, Marie JoAnn, was born August 25 to Mr. and Mrs. Joe Mantello. Congratulations to proud parents. Thanks for the cigars, Joe.
A son, Wayne, was born August 26 to Mr. and Mrs. George LeGaue. Congratulations to these proud parents. Thanks for the cigars, George.
We hope that Leon Richards will be well soon and back on the job.
Nick Fuglinski is receiving treatment for an injury received in the service. He is at the Vermont Administration Hospital in Framingham, Massachusetts. We hope that everything will turn out all right this time, Nick, and that you will be back with us soon.

Joe Barrier went to Old Orchard Beach on a one-week vacation.
Here is the story on cream puffs at a glance — from spoolful of batter to tender brown puff filled with whipped cream.

**CREAM PUFS**

Ever see a small boy look at cream puffs in a bakery window? Then you know what an attraction they will be on the home menu. Get cream puffs at your nearby baker’s, or make them yourself at home. They are not such a mystery as they seem!

Here is why cream puffs puff! When spoolfuls of puff batter are put into a hot oven, the water in the batter vaporizes quickly. This rapid evaporation expands the bit of batter into a hollow puff. After puffs are "set", even temperatures are reduced to dry everything out properly.

Sift cream puff right after baking, then fill with desired filling. Whipped cream is traditional, but custard, sweetened fruit, and ice cream are also delicious. Toppings of puffs may be sprinkled with confections’ sugar or frosted with a chocolate icing.

This same recipe may be used to make eclairs. Put cream puff mixture into pastry bag; then pipe in eclair shape three to four inches long, and one-half to one inch wide, on baking sheet. Bake as for cream puffs.

**PRE-NUPITAL PARTIES**

Mrs. William Grant has announced the engagement of her daughter, Miss Dorothy Grant, to Russel Ams. The wedding will take place on October 28 in St. John’s church. Miss Grant is employed on the Metal Clad Tubular Assembly.

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**FRENCH PICKLE**

1 pack of green tomatoes sliced
6 onions sliced
Cover with 1 cup of salt and let stand over night.
Drain
2 qts. of vinegar
2 lbs. of brown sugar
Munster seeds
1 tsp. ginger, cinnamon and cloves
Cook until tender

**BROWN SUGAR COOKIES**

1 cup of brown sugar
1/2 cup of shortening
1 cup of sour milk
1 tsp. of nutmeg
1 tsp. of baking soda
Flour to roll, not too stiff

**QUICK GRAHAM BREAD**

1 shortening
1 tsp. of soda
1 tsp. sugar
1 cup of milk
2 cups of flour
2 cups of cornmeal
2 cups of sugar
2 tsp. of baking powder
Cream raisins
1 cup of nuts (or just a little more)

Sift into a large bowl the flour, baking powder and salt; stir in the ingredients thoroughly, add butter and cut into small pieces then with fingers, flake the butter until no lumps remain. Then mix further by lighty rubbing between finger and hand until mixture looks like flour again. Add the milk and mix the mixture over and over with the hands until it comes into a wet dough. Put into ungreased muffin pans. The recipe makes 12 biscuits. Bake 15 min. in hot oven. They should be very hot before the buns are set in to bake.

**Recipes By Ann Haith**

Mrs. William Grant has announced the engagement of her daughter, Miss Dorothy Grant, to Russel Ams. The wedding will take place on October 28 in St. John’s church. Miss Grant is employed on the Metal Clad Tubular Assembly.

Many of us have smiled a bit at the "sleek looking superwomen" — those who gather around construction jobs and offer their "expert advice" free of charge. But a Pennsylvania contractor put human nature to work and is using their suggestions to increase efficiency on building projects. He employs one man to do nothing but gather the comments of the crowd — and the contractor claims that many major problems has been solved by piecing together these bits of wisdom from the sidelines.

1 cup water
1 cup shortening
1 cup enriched flour
1 teaspoon baking powder
4 eggs
Crush water and shortening. Bring to a boil. Add salt and flour to hot mixture. Beat thoroughly. Stir and cook over low heat until mixture forms a stiff ball. Remove from heat.
1 tbsp. salt
1 cup of flour
Mix egg yokes at a time. Beat thorough-
ly until all are thoroughly blended. Drop by spoonfuls on greased baking sheet. (Teaspoonful for small puffs; tablespoon for large puffs.) Bake large puffs 20 minutes at 450 degrees F. Then reduce temperature to 325 F. for 20 minutes. Bake small puffs 15 minutes at 100 degrees F. and reduce temperature to 325 degrees F. and bake for 15 minutes. Sift crumb with sharp knife immediately upon removal from oven. Fill with fruit, whipped cream or custard.

Makes about 18 large puffs or about 42 small puffs.

**HOT BISCUITS**

2 cups all purpose flour
3 tsp. baking powder
1 tsp. salt
4 tbsp. butter
1 cup milk (or just a little more)

Slowly add milk to the mixture. Mix and knead until mixture forms a soft dough. Roll into a 1/4 inch thick and cook over low heat. Stir mixture until mixture looks like flour again. Add the milk and mix the mixture over and over with the hands until it comes into a wet dough. Put into ungreased muffin pans. The recipe makes 12 biscuits. Bake 15 min. in hot oven. They should be very hot before the buns are set in to bake.

**Cooking Hints . . .**

Cup cakes and cookies are delicious. Bring a box to serve for any summer desserts. Depend on your neighborhood bakery to supply you with plain or frosted cupcakes and a variety of cookies which help you to please your family and beat the heat at the same time. Plain cupcakes may be dipped and covered with quick-frost or frosting. Each cupcake may be topped with an inverted peach half and garnished with whipped cream. These cookies makes a desert in itself, but they are excellent with berries, ice cream, or custard.

If you are entertaining a large group for luncheon, do it easily and generally with a buffet style “make-your-own-sandwich’ meal. On your prettiest plates arrange several kinds of luncheon meats, slices of Swiss and American cheese, crisp lettuce or cress, sliced tomatoes, olives, enriched bread and eye bread. The guests help themselves and make their own sandwiches. For dessert, bring out a large conserve of warm apple butter and serve with a pitcher of cream.

Need iron in your diet? Take it in these delicate apricot fig sandwiches with enriched white bread. Enriched bread is a good everyday source of food iron. You will need 1/4 lb. of blueberries for each of four sandwiches. Also excellent sources. To make 11 cups filling, enough for six sandwiches, you will need 1 cup dried apricots (5 pounds), 1 cup dried figs (3 ounces), and two tablespoons chopped nuts. First wash apricots and figs. Cover with warm water and let soak about 1 hour. Drain. Put through medium tuffle of food chopper. Add chopped nuts. Mix well.

During these blueberry days take time to enjoy blueberry griddle cakes or coffee. Add a tablespoon of sugar to each cup of flour you use in your favorite recipe for the batter, and fold in 1/2 cup of blueberries for each of four-flour just before baking. Serve these fruity cakes hot with soft butter and powdered sugar or with a hot blueberry sauce.

Remember Brown ‘N Serve rolls a quick hot bread to go with cold sippers, chilled summer soups like tomato and burghul, chicken, stuffed tomatoes, garden salads, molded gelatin main dishes. Pre-baked Brown ‘N Serve rolls keep their fresh quality several days when kept in the refrigerator. When wanted, bake only as many as needed. The best temperature is a moderately hot oven (135°F). In seven to ten minutes the rolls turn golden brown and appetizingly hot. Because both plain and rolls are available in the Brown ‘N Serv pack, you can have a variety of rolls in your bread basket with practically no work at all. Enriched Brown ‘N Serve rolls provide the same economical six-way nourish ment as plain enriched bread.

Bar cookies are neither cake nor cookie, but since they are a little of both, they are versatile for summer desserts. They are time-saving, for only a few have fillings and most bars require no icing. Date and nut bars, for example, are simply rolled in confections’ sugar. Spice bars are often frosted with a quick-confections’ icing and garnished with maraschino.

Save extra dishes when making breads by setting flour onto a piece of wax paper. Measure flour by spooning it into measuring cup, then level off with spatula. Resift flour with other dry ingredients, such as salt, sugar, and baking powder. The wax paper may be folded and used another baking day.

Deserts such as peach shortcake, cherry cobbler, apple turnovers, and many others may be enjoyed at all hours. Serve these delightful apricot-fig sandwiches as a first course or dessert. Use fresh apricots, if possible, as they are several times sweeter than dried apricots. Brown ‘N Serve rolls provide the same economical six-way nourishment as plain enriched bread.

A classic suit which offers an opportunity for color harmony or smart contrasts. Seventy Designer’s Pattern No. 828H.
A JOCKER’S NIGHTMARE...

Show me that Sprague line everyone’s panning for!

I’ll be a monkey’s uncle!
All sold out!

You can’t catch me or me a caper?

There is no substitute for Sprague!

Well, if you don’t have ‘em, I’ll go where they major in Sprague!

SEMI-PRO BASEBALL

The Williamstown Legion has announced the laurels here in the Northern Berkshire area and in the round-robin series just completed, won all games played.

These College Town lads, however, who have compiled the remarkable record of some 30 wins, did not get by the first round in the Western Massachusetts Semi Pro Tournament held in Holyoke. Competition here is always of the highest caliber.

They bowed out 4-3 but only after rallying in the top half of the ninth to tie the game at 3 all. It was a heart-breaking game to lose but the showing made by the College town lads won the respect of rival players and fans alike. Even in defeat the Williamstown Legion looked like a great ball club.

FOOTBALL

Congratulations to the “Assassins” from Down Under, for their winning of the Davis Cup.

The strangle hold that the United States has held over the Tennis World has finally been broken.

In Forest Hills Competition for the National Women’s Crown, Wimbledon Champion, Louise Brough, had quite a scare when a comparatively unknown, Abha Gibson, played a grand game but finally succumbed 1-6, 4-6, 7-9. The interesting note of this affair is the fact that Miss Gibson is the first Negro tennis player who has shown so much promise that she is now being talked a future star.

The Diamond
By Peter Mannan

Baseball terminology
Captain: The official head of the team who directs the players while on the field and who is the only person permitted to address the umpire if the question pertains to an interpretation of the rules of the game.

Substitute: One who takes the place of another player at any stage of the game. A player who has been replaced cannot enter the game again.

A assist: When a player handles the ball in a play that results in a base runner being put out at or if the result would have been so if the play had failed through no fault of the assisting player.

A baseman: As in baseball, a player runs immediately around the bases when he hits the ball.

A error: A play which allows the base runner to make one or more bases when a perfect play would have insured his being put out.

A overrun base: A base runner to make one or more bases when a perfect play would have insured his being put out.

The Phillies continue to dominate the Senior Circuit by 6 full games and we doubt if any club but the Dodgers has the stuff to overtake these hard-riding youngsters from Philadelphia.

Behind the Phillies and Dodgers comes the thundering Braves and the amazing comeback of the N. Y. Giants has brought them up into a tie with the Yankees and these two men can break up any tight game at any time.

NATIONAL LEAGUE

The Trentino Club has all but wrapped up the championship of the City Soft-ball League. With clean cut victories over Sprague and Belouins’ the championship comes about in the proverbial “satchel.”

Although our Sprague boys were beaten out at the base of the pennant, we nevertheless feel that the season’s work was a complete success.

The spirit shown in all contested games was the type that encouraged great team play and the will to win. You did a fine job fellows and we look forward to next season, when we know that the championship crown will come to nos at Sprague Electric.

Fishing Contest

Entries in the Fishing Contest this time are:

Bill Sowards, a pickerel
Joseph Garvice, a northern pike
Frank Santelli, a brown trout

Bows—“Have I done him any damage?”

Disguised Second—“No, but keep on fishing. The draft might give him a cold.”

ROBERT W. RUSSELL

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