Enjoying coffee on R.E.E. Day Tour at the Marshall Street Plant are, left to right: Robert C. Sprague, Jr., Clarence C. Chaffee, William E. Gordon, Gordon Keyworth, Harry M. Easton and George Citrous, knell- ing.

Luncheon was served to the visitors from House Mills, Inc., James T. Hunter Machine Co., Strong, Hewat & Co., Wall Streeter Shoe Co. and Sprague Electric Company in the Blue Room of the Richmond Hotel.

After luncheon, the visitors from Sprague Electric remained at the Blue Room and heard talks by John D. Washburn, Director of Personnel, on The Present Day Industrial Em- ployee, Julian K. Sprague, Vice Presi- dent in Charge of Sales, on the Evers of Our Products, Ernest L. Ward, Vice President in Charge of Manufacturing, on the Responsibilities of Industry and the Community to Each Other, and Robert C. Sprague, Jr., who discussed the sound-slide film, "This is Our Community to Each Other, and the other in the afternoon.

James T. Hunter Machine Co.

Twenty-seven teachers visited the James T. Hunter Machine Company, where they were shown through the various stages of manufacturing textile machinery. Before the plant tour, the visitors were greeted by Richard Hunter who also spoke to the group, along with other executives, at the Richmond Hotel in the afternoon.

Strong, Hewat & Company

At the Strong, Hewat & Company twenty-five visitors were welcomed by G. Douglas Hewat who described manu- facturing operations at the plants and the part that wool plays in interna- tional economic problem.

After a tour of the plant which was directed by R. H. J. Hewat, Regional White, G. Douglas Hewat and George Carson, the visitors heard talks on this wood industry in the afternoon at the Strong, Hewat & Company.

House Mills, Inc.

At the House Mills, twenty-five visitors, including Walter G. Patterson, Principal of Drury High School, went on a plant tour which was directed by Llewellyn Masson, Alfred Jacob, Alfred E. Emler and Superintendent James E. Bowerick. Patrick J. Geraghty, plant manager, first explained to the visitor, the operations of the plant.

In the afternoon, motion pictures illustrating various phases of the rayon industry and its importance in our economic set-up were shown.

B.I.E. Days have been given in many other communities, particularly in Connecticut and the Mid-West. The aim of the programs is to give educators a first-hand knowledge of the educational, administrative procedures, production operations, and business methods of in- dustry. Having gained this knowl- edge, teachers are able to appreciate the problems industry must cope with as well as the opportunities industries offer their future employees now in school.

George J. Beckworth
Mise. Dry Test, Finish and Shipping
Department
Arthur W. Beale
Foil Preparation Department
Frank E. Forini, Jr.
Dry Tabular Finish Department
Edward J. Gaul
Dry Rolling Department
Harold C. Hart
Mise. Dry Centrifuge and Sub
Victor K. Harwood
Formation Department
Montesi E, Jones
Formation Department
Hugh D. MacFarlane
Ceramic Department
Wall Streeter Shoe Co.
R. C. Sprague, Jr., President of the Wall Streeter Shoe Co., greeted the visitors after which Robert Wall gave a talk summarizing the manufacturing pro- cesses which the visitors would see on a tour of the plant. The teaching personnel visiting the Wall Streeter Shoe Co. was split into two groups, one section touring the plant in the morning and the other in the afternoon.

The war in Korea has only been in existence since June 25 but everyday it is being brought home to us more vividly. When actual combat first be- gan in Korea, people in this country thought little about it except that there was another tilt in the Far East. As time went on, however, our troops were sent across, major battles were fought and it became apparent that Russia was at the root of what is considerably more than a Little tiff.

There have been a great many of our American men killed and still more have been wounded. When war strikes so close to home, people begin to ask questions, they want to know if this is the end of World War III. This question only time can answer.

We have not altogether recovered from World War II. The United States, however, has plans for wage and price controls, taking a large percentage of goods for the war effort and mobilizing the country.

The key word among the younger group of men is "How do you stand, what's your draft rating?" The future is uncertain and it is hard for men eligible for the draft to obtain good jobs or start making homes.

In North Adams, many men in the Army and Navy Reserves have been called to active duty and many others have been drafted.

From the Sprague Electric Company, the following men have been called into the service of their country.

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Arthur W. Beale
Foil Preparation Department
Frank E. Forini, Jr.
Dry Tabular Finish Department
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SPRAGUE ELECTRIC LOG

• KNOW YOUR FOREMAN

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

By Choo-Choo

In 1936, Kenny came to Sprague Electric and went to work in the Can Shop. In the two departments together, there are 50 people. The actual process of the capacitors in his department is much too involved to go into, but briefly the capacitors, after they arrive from another department, are rolled, put in caps, tested, sealed, torched, insulated, and then are painted, packaged, labeled, stamped and shipped.

Kenny is secretary of the Management Club at Sprague Electric and this past August he celebrated his fifteenth year with the Company.

Besides his numerous other activities, Kenny spends a great deal of time working around his new home. His hobbies at one time included collecting baseball cards but after talking with Kenny I think it would be a rather interesting pastime as well as one that could be profitable.

In the photography field, Kenny has always been active. He plays golf, tennis, and enlarging on an amateur scale.

In the sports field, Kenny has always been active. He plays golf, tennis, and has played baseball in the Northern Berkshire Twilight League. Last year, he was on the Sprague Softball Team. His hobbies at one time included raising tropical fish of which he had about 2000. Raising fish as a hobby has probably never occurred to most people but after talking with Kenny I think it would be a rather interesting pastime as well as one that could be profitable.

In the photography field, Kenny has always been active. He plays golf, tennis, and enlarging on an amateur scale.

Kenny is familiar to most of us not just as a foreman but as the Sports Editor of the Log. He has been keeping the LOG up to date on local and national sports for about ten years.

In 1948, Kenny came to Sprague Electric and went to work in the Can Shop, a much smaller department than it is today. From that year until 1994 he was up and down between the Can Shop and Miscellaneous Paper Assembly. In 1948, he went into Industrial Oil Cover Assembly and two years later was made Foreman of that department and Industrial Oil Rolling. In the two departments together, there are 30 people.

Kenny Russell, Foreman of Industrial Oil Cover Assembly and Industrial Oil Rolling.

Virginia Green, three-year-old daughter of Marion Green of F. P. Days Night Shift. Two and a half-year old Barbara Ann Wilson, daughter of Stephanie of F. P. Days Night Shift. Betty Ann, three years old and Missie Rae, one and a half-year old, daughters of Rose Leblanc of the Oven Department of F. P. Drys. Patricie Ann Bentley, four-month old daughter of Miss Josephine Buda of the Molding Room at Brown Street and granddaughter of Edith Fields of the F. P. Assembly at Marshall Street. Kenneth Green, one and a half-year old son of Marion of F. P. Drys.
PHOTO STORY OF B-I-E DAY

Mrs. Robert C. Sprague, Jr., pins an identification card on Coach John Del Negro.

Mr. R. C. Sprague welcomes B.I.E. Day visitors.

Sisters of Notre Dame and St. Josephs in the Ceramics Department.

Actual production on the Cover Assembly is viewed by the Sisters.

William W. Stifler, Jr. shows a hearing aid to group.

Clarence C. Chaffee, who played a large part in organizing B.I.E. Day, explains a few things to a group of teachers.

Motor Generator Room

BUSINESS INDUSTRY EDUCATION DAY

September 13 1950

John B. Clark, Robert W. Taylor, Mayor James A. Bones, Julian K. Sprague, William J. Stackpole in Blue Room at Richmond Hotel.

Clarence C. Chaffee and Courtney W. Flanders distribute booklets to departing guests.

Robert C. Sprague, Jr., Harold L. Carson, Carol Malloy and Mary Merrigan in Blue Room at Richmond Hotel.

SPEAKERS

Left to right: Julian K. Sprague, Robert C. Sprague and John D. Washburn.
You will then see one of our most interesting manufacturing operations—the automatic rolling of paper capacitors and the formation of a roll. This department in the company extended over a period of around fifteen years and at a cost of several hundreds of dollars. They have great flexibility and will automatically and continuously produce all types of foils, a wide variety of paper and foil widths, a number of turns and number and thickness of layers, and will meet the many and varied demands of our customers.

On the second floor of our laboratory is the analytical laboratory, electron microscopy and X-ray diffraction equipment, and equipment for research and testing in various areas of electrical and electronic equipment. The efficiency of this laboratory, unique except for the specialized and technical nature of its work and the passage of current at varying voltages through chemical solutions. The equipment is in all cases especially designed by our engineers for the particular purpose, and in this room the largest investment in equipment that we have in any one place. The motor-generator sets cost up to $50,000 per unit, which is grossly more than the large amount of power required to operate them. Our paper mill, for instance, is a running foot, and the long form capacitors used in the process are actually manufactured at a rate of one foot per second to each foot. The thin aluminum oxide film resulting from this process is too thin to be seen by the naked eye, except by a change in the color of the reflected light, but it will stand voltages continuously as high as 500,000 volts D.C.

Beyond the formation department is the enclosure department where we produce and fire the ceramic discs previously mentioned. The interesting and peculiar part of this section of the factory is that the material is not its thickness, as is the nature of the aluminum oxide film, but rather its extraneous material which is about 3000 times that of air, or about 1000 times that of dry paper for instance. This is a relatively new branch of the capacitor art, and we are one of the very few companies manufacturing our own ceramic discs.

Next, there is the Dry Assembly Department where we encase the aluminum foil which you saw processed in the Formation Department. It is important to note that there is a great deal of hand labor required in this department, which is particularly true in the manufacture of the large number of types; that is, capacity and voltage combinations, which our customers require from us, and the frequency with which they change their requirements.

The most important, of course, is the opportunity to help by providing work and wages under good working conditions for as many young people and for many types of people, so that they and their families will remain in town.

Second is the opportunity to help by providing a place for individuals to grow and realize their ambitions.

Third, industry can provide opportunity for the individual citizen worker to grow in pride of craftsmanship, to be assured of living for his or her family, in friendship, and in security and steadiness of income.

Fourth, there is general responsibility of the community, such as maintaining clean, attractive plants with a minimum of smoke nuisance, encouraging its individuals to participate in civic activities and sponsoring charities. As to numbers of jobs and amount of pay, people are the most important people.

In 1930 the Company employed approximately 500 people in the factory and the annual payroll was about $350,000. By 1940 the number of employees had grown to 750 and the annual payroll to $1,000,000. We are now in 1950 and the number of employees in North Adams and Adams is approximately 1,250.

In addition, we have had to open in plants in three other cities where we are currently producing, yet we are no larger than we could not hire sufficient help in this community. Our North Adams plant employs about 400 employees.

We have done much over a period of years to encourage pride in jobs, to know that the best use of each individual's talents is the only way of insuring security of income for the individual.

When we look at the other side of the picture and consider the community's responsibilities to industry and the responsibilities of industry to the community, we have a great deal of pride in South Adams, with a high standard of living for our affected any where in the world.

RESPONSIBILITIES OF INDUSTRY AND THE COMMUNITY

By E. L. Ward, Vice-President in Charge of Manufacturing

The fact that we are gathered here for a Business, Industry and Education Day speaks well for the future of the opportunities of industry to contribute and the part we take in this program, that it shows industry today is aware of its responsibilities and opportunities to the community. In the enthusiasm with which you have turned out you have shown a keen awareness of your own important part in community and industrial relations.

The last census revealed that North Adams has a population of 23,000 with 6,250 residents. The average number of people per family is about 3,100 of the Mothers and Daddies of those children. We Daddies and Mothers see that the children are well educated, well fed and sent off to their daily care. When you send them home, we help with the light and hope to bear with pride when the report cards come home. When the children have finished their education many of them take up jobs in industry, help industry to grow, which in turn helps the community to grow, and the school system in the community.

What are some of the specific responsibilities of the community, or putting it a better way, opportunities to help the community? If we can realize this mutual interest and need to each other as so many people in the community, our industries, our industries and we as individuals will prosper.

THIS IS OUR PROBLEM

By R. C. Sprague, Jr. Director of Employee Relations

About ten years ago, I would have thought I had a lot to say to such a distinguished aggregation of teachers and teaching personnel; however, ten years accomplishes a lot in itself and is the best use of each individual's talents—especially in the field of education. Our program is explained in detail in the great programs in style by the few people, this is our program and the personal responsibility to help being this information not only to its employees but to as many people in the community who are interested in hearing it; for although the American people believe in the American form of government, it has been found that many of them do not understand how it works for them. Our form of government as such has no inherent means of telling of its advantages. We are opposed to ours use every unethical and subversive weapon in defining the purpose of our all-powerful propaganda machine. We have tried to use as few technical terms as possible. We have sent out almost all examples of this one. This program is a report of management's responsibility to help bring this information not only to its employees but to all people.
Misc. Paper Finish

By Velma Lincoln

We welcome our new boss, Janice Nicol and hope he likes working with us.

Anniversary greetings to Josephine Mastaliz. Each year her husband greets her with a red rose, one for each year they have been married. This year she received four roses.

Jane Landry was quite busy visiting her twin sister, Cora Ryan, who was operated on in the North Adams hospital. We hope you feel fine now, Cora.

Alice Cronin led us to go back to school in Quincy. She was our check inspector while Gertrude Doss was on her vacation in Bermuda. We all like Alice and hope she will be back soon.

Mary Zito and Helen Harrison went to the Rutland Fair on Labor Day. Helen was also at Hampton Beach.

Lucille Beaudry enjoyed their vacation in the Green Mountains in Vermont and also went to the Rutland Fair.

Betty Fleury is New in your area.

A. C. Dry Assembly And Centrifuge

By Joyce Harrington and Harry Embry

George Beverly and his wife recently went to New Britain, Connecticut for a weekend.

Percy Birdwell visited his mother in Canada over Labor Day weekend.

Jennie Melito and her daughter, Delores enjoyed Labor Day weekend in New Jersey, while Roy Terrier went to Boston for the holiday, and Joyce Harrington attended the Rutland Fair. Grace Scarfone went to the North Adams Fair with her family.

Lea Perras entertained relatives from Connecticut over the holiday and Alice Pisano’s son, Joe, was home on furlough from Maryland.

Metal Clad Dept.

By Francis and Ruth

A late but hearty welcome to all the new girls in our department and we hope they enjoy their stay with us.

Sorry to hear of Ann Concya’s husband being in the hospital and we do hope he will return home at home again in a very short time.

Just heard Martha Choquette is fine after her recent operation and we hope to see you back soon.

We are also glad to welcome Giselle Manders back again after a short trip.

We hope all those left who went to return to school miss as much as we miss them. Wishing you all luck and hoping we may see you all again and often.

Dorothea Grant who is to be married in the near future has been unable to secure an apartment. If anyone knows of a three room apartment, please notify her.

Molded Tubulars—Day Shift

By Ruth Tankski

As vacation days draw to a close we learn that Ida Fowler enjoyed her two weeks in Atlantic City and Pennsylvania.

Rachel Deane visited in Springfield, Berkshire, Bertha Roy motored to Old Orchard Beach, Josie Nicski and Laura Skowron went to New York City and Pauline McCann, Thomas Vona and Alice Wright enjoyed a restful vacation.

Several of our gang took advantage of the Labor Day weekend to travel.

New York City, Merida Baldassarini went to the Rutland Fair where she won a blanket and two large bottles of groceries, Margaret Conno enjoyed the Northampton Fair, Rose Vallerres visited in Marble, Janet Oleszkiewicz went to New York City and Florence Duprea attended the Rutland Fair.

The engagement of Sandra Lococo of this department to John Parker has been announced. The wedding will take place on November 1st.

Our newest co-workers include Nancy Davis, Rose Blair, Dolores Tangany, Betty Davis, Lima Pietron, Robert Urquhart, Jeremiah Perio, Eunice Collins, Gloria Anne, Christine Andrews and Margaretie Fletcher.

Barbara Fosse who worked in Metal Clad Assembly this summer and is the daughter of Edith of Metal Clad Assembly and formerly of Miscellaneous Paper Assembly has entered the Pitsfield General Hospital for Nurses. Barbara, who graduated from High School in June, was presented with a gift and farewell cake by her co-workers in Metal Clad Assembly.

Product Engineering

By Frances Malito

Rita Shattuck and her husband are off for a two-week vacation. Have a nice time, girls.

Lois Lipton is sporting a beautiful diamond. Don’t worry girls, it is only a birthday present.

Welcome back to Ethel Powell, who was sick for some time. You are looking swell now.

Our special welcome mat is out for Eugene Canova and Royal Scott. Hope you like working in our department, fellows.

Industrial Oils

By Ann Heath

Our deepest sympathy is extended to the family of the late Larry Dufrane.

Gerry Besoorte is the proud mother of a boy. Congratulations also to grandma, Millie Kearns. Elva Hur- burt and Isabell Witherow are also proud grandmothers.

Sadie Champagne has a new son but this one happens to be a son-in-law. Congratulations Katherine and Ken and lots of luck.

Jim Emery, son of Winnie Emery, has resumed his studies at college.

Gary Oakes started at State Teach- ers College this year. Gary is the son of Alta and quite the artist. Keep it up, Gary.

Between Besse York and Margaret Greene, if they ever got tongue-tied, we don’t know what we would do for a good laugh.

Dennis Conin has just come to our department as a new member of Dennis, we hope you will like working with us.

Frances Mike has nothing on her face, a new like to those in your closet—poor girl must have a piano.

We miss David Richards very much after he returned to school. We shall certainly miss him.

Industrial Oil Rolling

By Helen Leisure

Gay September is here once again ushering in the beginning of the fall season. It’s fog, falling air, fall foliage and school bells are the com- bined ingredients making this one of the nicest months of the year.

Speaking of school, the department is jam-packed with new student rollers. It’s like very much to mention the names of all the new freshmen but it would take, considerable space. There’s an enrollment of approximately twenty girls and to each and every one of you we extend a hearty welcome. Mighty glad you girls too, enjoy it.

Ida Mannon, you’re making us ter- rifically unhappy. We don’t like the idea of your being confined to your bed at all.

We hope you’ll be able to leave your bed behind you and join us once again. We’ll all be delighted to see you.

We’re all happily singing “Rock-a- bye baby” since we heard the good news about the arrival of a certain baby boy.

Said baby boy is definitely ac- ceptable in the sight of mother, Gerry Besoorte and proud grandma, Millie Kearns.

Well, sports fans, bowling season is once more under way. Captain Margaret Wohler is confident that her team will do its best to come through with a victory.

We think we’ll have to have a little vacation. Thanks for all those chocolates from the department.

We welcome our new boss, James A. C. Dry Assembly And formerly of Miscel- lanceous Paper Assembly.

We think we’ll have to have a little vacation. Thanks for all those chocolates from the department.

We all wish you many more happy years, Dorothy.

We are glad to welcome Virginia Spencer who is back with us after a leave of absence. We also welcome Anne Hammeister. As we welcome Virginia and Anne, we bid goodbye to Betty Gargal and Marlis. We do hope that the three of us will be able to return to school. We shall certainly miss them.

Engagement

Mr. and Mrs. Charles Norman an- nounced the engagement of their daughter, Miss Mary Jane Norman, to Ronald Tociani. Mr. Tociani who works in PAA Section Test and Solder, will be married to Miss Norman on November 11th.

Sprague Products

By June Gordon and Rita English

Everyone seems to be getting drivers’ licenses this year. Among the proud drivers in our midst are Sally White, Margaret Leshnis, Betty Gargal and Janice Fowler.

Boating season is about to begin. This year since the office has grown larger, we plan to use two teams. We will be the sales against the accounting department and we think it should prove interesting.

We are glad to welcome Virginia Spencer who is back with us after a leave of absence. We also welcome Anne Hammeister.

As we welcome Virginia and Anne, we bid goodbye to Betty Gargal and Marlis. We do hope that the three of us will be able to return to school. We shall certainly miss them.
DRURY HIGH SCHOOL FRESHMEN ENJOY FIELD DAY IN PLACE OF TRADITIONAL HOMECOMING

The final score was 40-19.

Forced out: A base runner compelled to make room for a batter and is put out being put out before he reaches first.

Shut out: The failure of a team to score in the number of innings played.

Bat: A stick for striking the ball made of willow, hickory or ash. It is two and one half inches in diameter and not over forty-two inches in length.

Kenny Russell

SPRACUE ELECTRIC LOG

OCT. 6th

DRURY HIGH SCHOOL FRESHMEN ENJOY FIELD DAY IN PLACE OF TRADITIONAL HOMECOMING

User's Of Our Products

Sprague Electric is in the forefront, as an out-all-war effort should be understood.

World War II brought about the first widespread use of electronic equipment for military purposes. The better known devices in this category included: transmitters, receivers, identification equipment, radar, sonar, automatic gun laying, the proximity bomb, and many others. These were rushed to the European War and the atom bomb which certainly was developed against Japan.

During World War II, the Sprague Electric Company as the result of its basic research and engineering in prior years, became the sole supplier of some thirteen critical components for our services. We also created as components the power supplies for radar, known as pulse networks, and furnished nearly 95% of all these used during the war.

So great was the demand for our products that our volume rose by a factor of seven times in a period of four years.

Two or three stories diagrammatically illustrating the importance of quality in these components in military equipment should be noted. You will recall that the able German, General Rommel, chased the British clear across Africa. It became evident that the British were victims of the British ineffectiveness at this time was a Wholesale failure of the capacitors in the communication equipment used in their tanks, which had not been designed to withstand the killing desert heat. The Sprague Electric Company was brought into a crash program to build replacements and received a single order for some sixteen million capacitors.

The first units of the line were flown to Africa and enabled the British to repair their sets. A broadboard model of our a device was engineered at the Radiation Laboratories of Massachusetts Institute of Technology, where a large group of brilliant engineers had been gathered. This was sent to the Sprague Company for development into a reproducible design, and on a sub-contract basis, the Sprague-Carling Company was given the job of perfecting the high voltage modulator which was the heart of the system. From the first prototype built, it became evident that neither capacitors nor resistors existed which would stand the high temperatures and voltages to which they were subjected. The Sprague Company was called into the picture and, while we had no units in production, we had been working in the laboratory for a long time on two developments which seemed to have promise.

One was a new high temperature capacitor impregnant and an hermetically sealed high value resistor using ceramic coated wire. By introducing new methods, completion of our developments, which normally would have taken several years, was effected in four months. Had this not been possible, the radio equipment would have never been built and we can only guess what would have happened. We went into large scale production as the sole source on these critical capacitors and resistors, and three months after the first sample modulator was delivered to Sperry, the German submarines had been driven back to mid-Atlantic.

At the present time our commercial business is still increasing. On top of this we have received a flood of military orders as the result of the increasing tempo of the military program. Military orders will continue to grow in size and number and it is expected that by the end of the first quarter of next year, we will account for approximately 36% of our total volume as against 15% at the present time.

It is believed that this increased military business can be handled without any reduction in our commercial output. However, if military needs go beyond this and our business automatically will require a corresponding reduction in our commercial business and that of our customers. Of course in an all-war out, we again would be faced with the men and material expansion to many times our present volume.