Atomic Power in War and Peace

How many bombs would be necessary to destroy all nations — 100 or 1,000? In this article from a speech by Arthur Compton, the Chancellor of Washington University, he gives his idea of the future applications of atomic energy.

Atomic energy has had its first great application in stopping a war but now will bear the burden of peace. It is a mistake to suppose that the atomic bombs alone have revolutionized warfare. For the first time in a war, it was impossible to protect one's home by holding the enemy beyond a wall or by armadas of airplanes guided by radar. For the first time in a war, it was impossible to protect one's home by warfare. For the first time in a war, it was impossible to protect one's home by warfare. For the first time in a war, it was impossible to protect one's home by warfare. For the first time in a war, it was impossible to protect one's home by warfare.

Bombing Radar Sets Used at Weather Stations

A high-altitude bombing radar set designed by the Signal Corps to spread destruction in enemy countries, now has been adapted to a practical meteorological use in detecting the approach of storms.

Originally installed in B-29 bombers, these sets are being dismantled and mounted in observation stations, where they tell the direction, intensity and other characteristics of weather disturbances.

To Make Initial Bow in March

The Sprague Electric Orchestra has been rehearsing for the past four months. There were many problems to be ironed out before the orchestra could get under way. There was the problem of organization — the problem of getting enough persons sufficiently interested in form such an organization; the problem of a suitable place to meet for rehearsals; the problem of getting the right instruments.

Under the able supervision of Stanley Demum, Barry Barschdorf, and Gene Pick, the orchestra was formed. The orchestra was formed, and now with "Stan" Demum wielding the baton, the group will make its first public appearance sometime in March.

Paging "Sprague on Parade" Members and Others Interested in Singing

For the March presentation, it is planned to add the voices of the former "Sprague on Parade" chorus to round out a pleasing program of vocal and instrumental selections. Anyone interested in singing, whether a member of this group or not, is cordially invited to join with the two groups for the concert. Participation in this event will be stimulating and afford a great deal of satisfaction to the participants. It is sincerely hoped that the "Sprague on Parade" group will come to the first joint rehearsal on Wednesday, February 8th, at the auditorium of the State Teachers' College.

Race for Atomic Weapons Means World Annihilation

It is necessary that we work toward committing to a world government the responsibility, authority, and military strength, to prevent any nation, including our own, from waging war against another nation.

Radio and Electronics Employees Make Good Showing In Winning Army-Navy "E" Awards

Manufacturers engaged in radio and electronics production, together with their employees, have made a splendid showing in winning the Army and Navy coveted "E" awards during the war. The final list of war plants which were given one or more of the "E" awards included 4,283 plants. There were well over 100 plants representing the radio and electronics industry showing a higher ratio of winners in this field than of industry as a whole. According to the official Army-Navy report, the "E" award was granted.

Sprague Electric Orchestra In Concert

Hiroshima, Japan, seen from the air, after being destroyed by the atomic bomb on August 6, 1945. —Army Air Force Photo

HUNDREDS OF MILLIONS OF HIDDEN COMPONENT PARTS ESSENTIAL TO MODERN LIFE

The humble "condenser" would still be leading a hermit's life if Uncle Sam had not released publicity about radar, the proximity fuse and the A-Bomb. Even so, we wonder if Mr. and Mrs. J. Q. Public has any idea what a capacitor is; what makes it click; how many thousands of different kinds are needed to keep things going today.

9675 DIFFERENT ELECTRICAL COMPONENTS DESIGNED AND MADE BY SPRAGUE IN ONE YEAR

On this page is a panoramic view of some of the thousands of different components designed, engineered and produced by Sprague Electric Company in 1944. Before long we hope to show you the 1915 picture. Meanwhile we will publish material explaining what a capacitor does; how it...
RADAR IN PEACE TIME

Just as radar proved an invaluable aid in wartime, so now, it is proving an equally valuable in its new peacetime role as a component of the communications matrix to which it is being adapted, is that in helping the deaf to hear.

Radar hearing devices not only provide the deaf with the sound of speech, but they also make it possible to step up volume to an intensity that is tolerable for individuals that use it in Neon lights.

The visual signal is then converted into an electronic signal which is amplified by a series of vacuums, relays, amplifiers, and radio tubes. The intensity of the energy is increased by the microwave transmitter and then transformed by the tiny crystal (or lead sounder) back into mechanical vibrations which become "audible" to the wearer.

Those with low or moderate degrees of deafness can be fitted with devices which wear on the head like a hat and have a microphone attached to the ear. The sound of the voice is transmitted through a wire to a transistor receiver, amplified, and then converted back into sound waves. The result is that the deaf individual can hear the voice of the person speaking to him.

The other type of hearing aid is a small device that is worn on the ear like a hearing aid. It is called a "Cathode Ray Tube." It uses the same principle as the television tube but is much smaller. The tube is made up of a cathode, an anode, and an electron gun. The cathode emits electrons, which are accelerated by a high voltage and then focused onto the anode. The anode emits light, which is then detected by the ear of the person wearing the device.

In addition to being used by the deaf, radar hearing devices are also used in other areas. For example, they are used in hospitals to help nurses communicate with patients, and in factories to help workers communicate with each other.

The future of radar hearing devices is bright. As technology advances, these devices will become smaller, lighter, and more efficient. They will also become more affordable, making them accessible to a wider range of people.
**ATOMIC ENERGY IN WAR AND PEACE**

**New Member**

We are glad to welcome a new member to the Atomic Engineering Department. Mr. P. R. Alger, who formerly was a Lieutenant-Commander with the U.S. Navy Reserve.

**Serving on Grand Jury**

When the Superior Court opened in Pittsfield, Mass., for the January sessions, Mr. Alger, development and management of the Factory Engineering Department, was elected foreman of the Grand Jury panel for the ensuing year.

**Story of A Capacitor**

To acquaint you with one of many components, we are reproducing the story of "Conductors" which appeared in a 1938 issue of the Log:

A conductor is a device that stores or concentrates electricity. When it is storing electricity it is charged. The simplest form consists of two conducting plates such as copper, aluminum or brass, separated by an insulating material such as air, oil, paper or mica. Such a conductor may be charged by connecting a battery to the two plates. When the current is turned off, the spark will jump. In some cases this will go on until one side chooses to surrender, or is unable to resist.

**WANTED**

**CORRECT ADDRESSES OF SPRAUGE MEN IN SERVICE**

The scene of operation of many of our former employees is now changing so rapidly, it has been impossible to keep an accurate record of them.

We wish to keep in touch with our service men and it is much more enjoyable through your cooperation.

If you know of a recent change of address of your son, brother, husband or friend, will you send it in to the Beaver Street Headquarters.

**SERVICE NEWS**

**Win Promotions**

Robert J. Kell, formerly of the Industrial Olds Department, has been promoted from Seaman, 1st to Steward's Mate 1st. He is serving with the U.S.S. New Amsterdam and stationed at the T.S.S. U.S.S. of the Industrial Olds Department.

**Kay Burns Writes:**

Dear Friends,

This is not the approved method of catching upon your overworked conscience, but it will do just fine.

We were called to Fort Des Moines, Iowa, to begin our duties on July 17. It was a bit strenuous but a good deal of fun. There were thirty-eight officers in our group, all pretty well educated, led by Major Keith Johnson, who I call "The Chief" just because he is, and known as "The Mighty Midget."

The good ship Cristobal was the apprehension of the entire Corps. By the time we arrived in Compiegne the next day it was too late, for there she was seaworthy and quite comfortable. Except for the Russian interpreters, who were members of the Don Cossack Church and the Russian ballet group, but now they were just GI's like the rest of us.

As we approached the Channel we found quite a bit of excitement and some tension in the group. It was a perfect day and time for some noise and enjoyment, but many of us was still in the "pasture" the night of August 20th but was brought in first thing the morning by the pilot boats. The destruction of Le Havre was greater than I had ever realized and much of it was still making it dangerous to this day with much redoubled defenses ever since.

The good ship Cristobal was disarmed and made a gala celebration. It was gala, believe me, and that is enough said for that. A fine show was staged on deck and very little damage was done to any of the ships as "The Mighty Midget."

V-J Day came while we were in mid-ocean and the Transport Commander threw open his suite to the officers for a gala celebration. It was gala, believe me, and that is enough said for that. A fine show was staged on deck and very little damage was done to any of the ships as "The Mighty Midget."

**Donal Lidell, N.C., U.S.N.**

Formerly of KVA Cover Assembly, stationed in Germany. He saw action with the 5th and 7th Armies, serving under Patton and Patch. He holds the Good Conduct Medal, Infantry Expert Badge, Russian Expeditionary Cross of the Legion of Honor. His wife, Isabel, is in the Basing Department, Beaver Plant.

Cpl. James Atwood has served 32 months with the Persian Gulf Command in Iran. His mother is Amelia, of Prokar, Marshall Street.
LOCAL VETERANS, FORMER "BOY STARS," IN COLLEGES

Under the G-I Bill of Rights many veterans have taken the opportunity of entering a college or university. Here are a few local boys from the area who are attending some school:

S. Paquin, a former Drury star, is now attending Holy Cross. He has averaged close to 17 points a game. Miss Elizabeth T. Bellard, daughter of Mr. and Mrs. Antonio Bellard of West Springfield, was married Saturday, January 12, 1946. The bride is employed in the Chemical Control Department before entering the service. Miss Doris Fountain of the Paper Mill Department has announced their engagement. The engagement of Miss Elizabeth Leonum and Steven LeSesneau of Springfield, Mass., a panel discussion on "Safety Problems in Industry" was led by William M. Rogers, manager of the Council. Participating in the discussion were: "Semi-Pro and Amateur Basketball in the Berkshires," and "Berkshire College Basketball" by Hayes and Kasuba (they double checked him) this was credited with 8 assists, and was forever taking the floor off the backboards. He really is a top-notch hooper. Dale Holsen, Drury's very capable coach has been kick up for several weeks with a serious illness, and in his absence Charles Roberon, a former Drury star, has been coaching the club in a very satisfactory manner. We trust that he will make a full recovery and hope to see him back with his club soon. Pittfield High once again has won the 10 in a row holding victory over nine opponents in the Midtown to remain in the unbeaten ranks. West Virginia U. also has won 10 in a row holding victories of all opponents in the Midtown. The game that will undoubtedly pack the stands will be between Drury High and West Virginia U. on Wednesday afternoon. Two men were seated together in a crowded bus. One of them noticed that his friend had his eyes closed. "What's the matter, Bill," he asked, "feeling ill?" "No, I'm just tired." "Well, I hope you take a nap." "You're right, Bill. I think I'll have a nap," answered the other one. Then, 'Bill said, "But I have to see ladies stand-"
Shipping and Cancellation

By The "Gold-Dust Twins"

Events of This Department—Something new has been added in the Department. What is that bright spot behind the counter? Dawg anyone ever see Teresa turn a cake? Yes, we all did. What a mess. Lots of back from the gang girls.

By the way, boys, in your corner. There is a Thus. Then he takes your arm and you ask instead of him. Not instead of him. Out of wear one friend has come home.

We were pleased to see Louis G. Cellana. We wish him all the success and happiness possible.

Mica Molding and Impregnation

By Marj Crowld

The many friends and co-workers of Alza Mannet wish her the best of everything on her visit to her husband, L.C. Clayton L. Mannet, who is stationed in Washington. These cold wintry mornings bring back visions of Alza trudging to work in her "Cowboy Boots," and of her hands covered in her outer coat over her arms. We miss these "Library Talks" too, so hurry back, Alza. A picture of life back home is "Sarge" Budy walking through the impregnation carrying a pull as big as he is.

Twin Son and daughter, John and Jeannette Richards, of Richards of P. A. R. Billing Department, have been discharged from the army. He is stationed in Washington. These cold wintry mornings bring back visions of Alza trudging to work in her "Cowboy Boots," and of her hands covered in her outer coat over her arms. We miss these "Library Talks" too, so hurry back, Alza. A picture of life back home is "Sarge" Budy walking through the impregnation carrying a pull as big as he is.

P.A.A. Inspect and Test

By Elsie Leja

We wish you all a very happy Christmas present this October, but didn't give it to the person until January? Rosie Patalski is quite an aeronaut. That was one art she put in it that parts of umbrellas.

A hearty welcome is extended to all new members of the Department.

Elsie Leja would like to know who the person is who hung the mistletoe over the post office. She's even going to wear one cap of her children.

Wire Coating

By Betty Jangrow

We want to wish Elza a very happy birthday, and also to wish her the best of everything in this department.

Resistor Department

By Helen John

Patient, Kay Gossl, a good cook is not made over night... a day when the proper parts of life are fitted in (made for returned service) will not be failures and wind up in the junk yard.

Miss Althea became the second addition since the formation of the Department.

Althea Brown is certainly glad she put it in her mouth.

Irene Serventi calmly starts everything under the station to Come In,&. I wish her the best of everything in this department.

Irene Serventi calmly starts everything under the station to Come In, &. I wish her the best of everything in this department.
Our Safety Corner

BY CARLO DE LA FUENTE

A. C. Line left him in high spirits over recovery is your Lesage. Hope who were married recently. Fortini is sure one to proud of, judging

Photographer at Drury results. By the He
tooth? Armed Hauptileisch. did you way folks, 

did you old gang China, and that misses formerly 

the worth of your eyes before you

hazard . . . even for a few mo-

Vt. will say a prayer for her We

see visiting relatives in We

visited the Office Gang. It sure seems grand not to our

ex-service

Armed

write.

Bet you wish all the new orders will be on, from the Office Gang.

Socks and matching mittens that are fun lo make, (.all for di-

SPRAGUE ELECTRIC VICTORY LOG

Block Annex

BY ESTHER DRISCOLL

The long-awaited day has been, when Madame Rodnie will marry Francis Labonte, February 16th. Francis served 33 months in the U. S. Navy, 30 of them in the Pacific area. We're glad that "Ernie" is home, Madame, and wish you the best of luck.

We welcome Lester Moore to our Department—hope you like it here! Seaman John Scott, U.S.N., son of Catherine, was home recently on leave. He is stationed at Newport, R. I.

Welcome back, Alphonse Labontain—hope you're feeling much better after your long leave, Frank Major and Charlie Hereter are especially glad to see you, since they won't have to stay so late and all that shipping. Speedy recovery to Evelyn Bousillon—grippe certainly gets one down.

Florence Morcan had a wonderful time in Canada over the Holidays—they used there was more there than just the scenery!

Good luck to Gloria Modena in her new venture.

Horst Mantel has gone to Florida for a visit—lucky girl! We miss Lillian Miles and her good times—speedy recovery. What are you doing, Alice Carpenter to get us—wish we had your recipe.

Bernard Flaherty, formerly of the Black Annex is.collected in the U. S. Navy, and is stationed at Ft. Devens.

Machine Shop

BY WALASH AND REMILLARD

The Machine Shop is glad to well come back former co-workers who have been in service: Alfred Daldos, Donat Remillard, John Gifford, Donald Wyman, and George Widner. Seems swell to have you with us again.

When a technician was in the plant to hire new volunteers, they were called for, the Machine Shop gang responded nearly 100%.

EASY TO MAKE

Production Scheduling

By Florence Scott

Being a member of the Paint Department, the visit to the various offices, resulted in a Happy New Year, while enjoying a leave from the Navy Department, in Washington, D. C.

You'd better watch out, Marie-Rose, when you go skating again... and by the way, how is your knee, now?

Incidentally, we are now in our new office on the fourth floor. Good! it is much quieter.

We even get lost our- selves, trying to find the various de-

PARTMENTS—but we'll get it used. There's less of a crowd, and more space.

"Yo Yo?" She caught the bride's bouquet at a wedding she attended in Attleboro, N. Y. where she was Maid of Honor. You know the old saying, "Yo Yo about catching the bouquet?"