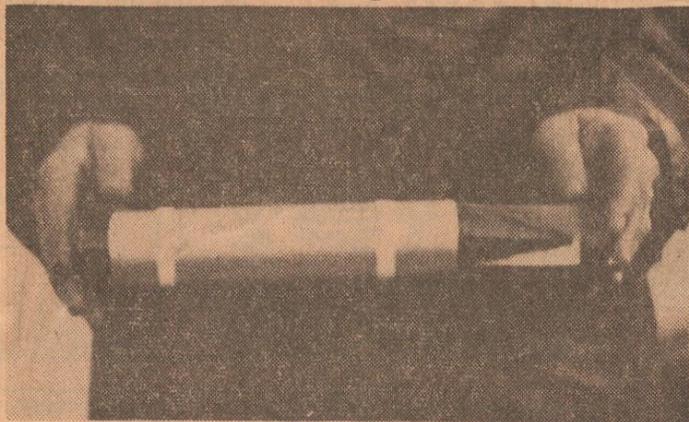


# Incendiary Bombs

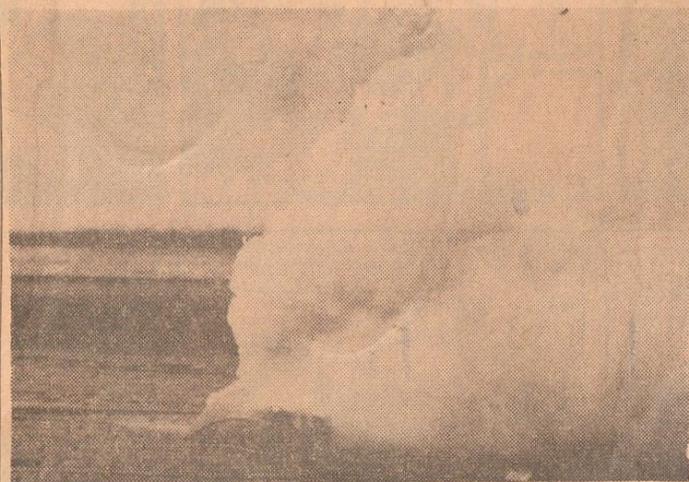
## How to Extinguish Them



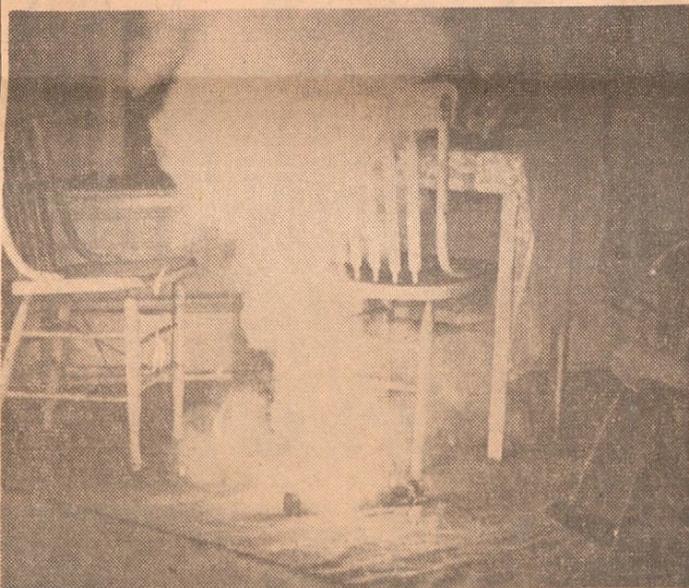
The Portland fire department has made a movie showing incendiary bomb control. These pictures are from the movie. Above: The incendiary bomb itself.



Shielding his face, a fireman carries a bag of sand to a bomb which has fallen in the street and which now is blazing. Carefully he places the sandbag on the fire.



But the sand in the bag is wet—and this shows what happens. The fire burns right up through the sand bag. Only dry sand should be used on these fires.



An incendiary bomb has gone through the roof of a house and now burns on the floor with terrific heat. Spluttering sparks are beginning to spread the blaze.



The house occupant, shielding face and body behind an overturned article of furniture, is putting a fine spray of water on the bomb from a hose. A stream only would spread the flames.



The fire now seems to be out, but the house tenant is making sure. With a hatchet he is cutting into the charred floor to see if any coals still remain. Portland theaters will show the movie.

# Movie Depicts Bomb Control

## Firemen Provide Instructive Film

A three-minute motion picture starring a turret pump and a fireman and supported by three buckets of water has been produced in Portland for exhibition in local theaters.

The film, entitled "Incendiary Bomb Control," was produced by the Portland fire bureau, with Art Mamero, amateur movie photographer, and Dick Slater, fire department photographer, doing the "shooting."

### Fifteen Copies Made

The instructive picture will open at the Newsreel theater Friday and at other Portland theaters a few days later. Fifteen copies of the film are being made, and eventually all Portland theaters will show it.

With Rollie Truitt, KGW-KEX, doing the commentary, the picture shows how to extinguish an incendiary bomb in the street and in the home. A fireman does the demonstrating.

### Star to Distribute

The film is being distributed by the Star Film exchange.

It shows an incendiary bomb actually burning in an east side home, starting with the time the bomb is dropped in the house and ending with the bomb being extinguished before it does much damage.

ATTENTION!

\*HAWTHORNE COMMERCIAL CLUB-

Where: Masonic Temple-39th. & Hawthorne

Date: Tuesday, January 6th., 1942

Time: 12 o'clock, noon.

Sponsor: Holman & Sons

Speaker: Captain Jack Lowe

Subject: Incendiary Bombs.

Door Prizes

Dues Payable Now-\$5.00

## INCENDIARY

# BOMB CONTROL

### Please Study Carefully and Preserve These Instructions

There are several types of incendiary bombs. The magnesium type is the most widely used today and the one which can and must be controlled by the civilian population. It is readily recognized by its intense white flame and the large volume of white smoke produced. These bombs are usually 2 inches in diameter and 14 inches long, weigh about 2 pounds, and will penetrate a roof of an ordinary building, usually landing in the attic or top floor. They can be easily and safely controlled by an individual or small group using equipment and material herein described. It is the responsibility of the occupants of each building, factory, or dwelling to furnish their own protection and do their best to immediately control all fire bombs falling upon their premises. The fire department may not be able to cope with a large number of such fires, all started at the same time.

Here is the equipment needed to handle an incendiary bomb if an aerial incendiary attack should be made upon Portland:

### METHOD No. 1

**EQUIPMENT:** Garden hose attached to water supply and equipped with an adjustable spray nozzle, or some form of force pump that will throw a stream of water, such as a pump tank, spray pump, or stirrup or bucket pump equipped with 20 feet of hose and an adjustable spray nozzle.

**PROCEDURE:** Approach the bomb in a prone position shielding face and hands with whatever is available and play a steady **SPRAY** of water on the bomb. Keep surrounding furniture, carpets, etc., wet. If fire starts in these, switch to a solid stream and knock down the fire, then switch back and **SPRAY** the bomb until it burns out. Do not turn a solid stream on bomb—use spray only.

### METHOD No. 2

**EQUIPMENT:** 2 loosely filled bags of **DRY** sand (20 to 30 pounds), 1 bucket containing 3 inches of **DRY** sand and 1 additional bucket full of **DRY** sand; 1 long handled shovel, 1 garden rake and a hatchet, axe or hand axe.

**PROCEDURE:** Wait until the initial shower of sparks has subsided (requires from 30 to 60 seconds), then approach the bomb with the sack of sand or bucket of sand. Place the sack on the bomb or pour sand over the bomb from the bucket. Then with the rake, pull the bomb and sand onto shovel and toss out the window. Or place the bomb in the bucket containing 3 inches of sand, cover bomb with sand and dump outside.

When a bomb has been extinguished or removed, the area under and around should be carefully inspected and all fire extinguished.

All operations should be carried out from a prone position, or as near the floor as possible so as to avoid heat, glare and smoke. Wet gloves are good protection for the hands. Dark glasses should be worn if available.

**DON'T** call the Fire Department unless the fire from the bomb gets out of your control.

**DON'T** throw a bucket of water on the bomb.

**DON'T** depend on Pyrene, foam, or carbon dioxide type extinguishers on these bombs. They are ineffective.

**DON'T** fear incendiary bombs. They **CAN BE CONTROLLED** without danger to yourself if you do as directed above.

Keep at least 10 gallons of water drawn and on hand in buckets at all times.

Officially issued by Portland Fire Bureau and Civilian Defense Council Portland and Multnomah County, January 2, 1942.

**MAYOR EARL RILEY, Director.**

## Chiefs Say You Need These for Incendiary Bombs



With fire bureau and city officials attending, a demonstration was held Saturday at the fire station at S. E. 12th avenue and Powell boulevard, showing equipment necessary to combat incendiary bombs. Above, from left, are Fireman Jack Lowe of the chemical warfare department of civilian defense; Otto W. Cahill, whose concern received the first approved stirrup pumps in Oregon; Fire Chief Edward Grenfell, Acting Mayor William A. Bowes and Fire Marshal Fred W. Roberts. Arrival of the stirrup pumps here made demonstration possible.

THE OREGONIAN, THURSDAY, JANUARY 22, 1942

**Fire Bombs to Be Topic—** Jack Lowe of the Portland fire college will discuss incendiary bombs at the weekly meeting of the Purchasing Agents' association, to be held Friday noon at the Mallory hotel.

## Air Wardens' Meet Called

An important meeting for the women air raid wardens in the Sunnyside district has been called for Friday at 7:30 P. M. at the Sunnyside school by Mrs. Edward Eckert, who is chairman for the 16 precincts in that area. This is one of a series of meetings being planned for the next few weeks for wardens in various sections of the city. Mrs. Harry Johnson will speak on the opportunities available to women in civilian defense activities and Captain Jack Lowe of the fire bureau will give a demonstration of the methods for dealing with incendiary bombs.

Although the meeting has been planned primarily for women, it is open to men, too. Mrs. Eckert says, who may wish to attend with their wives.

## Air Raid Wardens To Sponsor Meet

Air raid wardens of the Parkrose district, which embraces the area lying between 82d and 142d avenues, the Columbia river and N. E. Russell street, will sponsor a public meeting at 7:30 P. M. Tuesday in Parkrose high school auditorium.

Sheriff Martin T. Pratt will be present. Major E. J. R. Rossiter of the British navy, retired, will speak. Lee Weidner and Richard Slater of the fire department will show pictures of bombing and fire prevention work.

**Bomb Control to Be Shown—** A demonstration of incendiary bomb control will be given by Jack Lowe of the Portland fire department January 22 at 8 P. M. at Beach school, N. Humboldt avenue and Concord street, under sponsorship of the Overlook Park community club. The regular meeting of the club will follow the program. A secretary and delegates to the Federation of Community clubs will be nominated.

THE OREGONIAN, FRIDAY, JANUARY 9, 1942

### ROSE CITY TO MEET

Reports of committee chairmen on all post activities will feature the regular business meeting of Rose City post, No. 35, American Legion, Monday night in Norse hall, N. E. 11th avenue and Couch street, according to Commander Warren Forman. Vice-Commander Clarence Lenneville has announced that Lieutenant Jack Lowe, recently returned from the army gas school, will talk on incendiary bombs and methods to combat them and prevent damage.

THE OREGONIAN, FRIDAY, JANUARY 16, 1942

### Bomb Control to Be Shown—

A demonstration of incendiary bomb control will be given by Jack Lowe of the Portland fire department January 22 at 8 P. M. at Beach school, N. Humboldt avenue and Concord street, under sponsorship of the Overlook Park community club. The regular meeting of the club will follow the program. A secretary and delegates to the Federation of Community clubs will be nominated.

THE OREGONIAN, FRIDAY, JANUARY 23, 1942

### WARDENS TO MEET

Women air raid wardens in the Sunnyside district will meet Friday night at 7:30 at the Sunnyside school at the call of their chairman, Mrs. Edward Eckert. The meeting, Mrs. Eckert says, will be open to men as well as women who are interested in Captain Jack Lowe's incendiary bomb demonstration, which will feature the program.

THE OREGONIAN, MONDAY, FEBRUARY 2, 1942

**Bombs to Be Topic—** Jack Lowe, chemical engineer for the Portland fire department, will discuss "Incendiary Bombs" Tuesday at the noon luncheon meeting of the Portland Exchange club at the Heathman hotel.

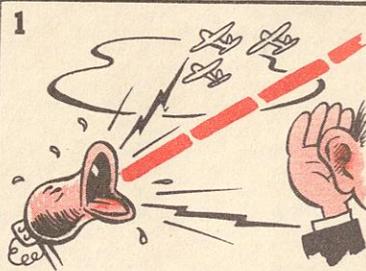
THE OREGONIAN, FRIDAY, APRIL 3, 1942

# What to do...

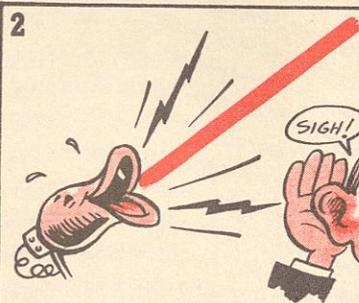
## In An AIR RAID

THIS BULLETIN APPROVED BY CIVILIAN DEFENSE COUNCIL

CALL BEACON 7396 FOR FURTHER INFORMATION



1  
If an attack should come there will be a signal of 2 minutes duration consisting of either a fluctuating or warbling signal.



2  
The all-clear signal will be a long, continuous signal of 2 minutes duration.



3  
Do not become panicky. Panic-stricken people impede the firemen, policemen and other authorities who are trying to protect them.



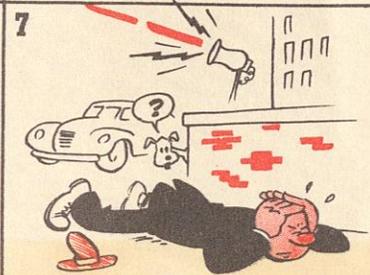
4  
Avoid use of telephone. Keep wires clear for official messages.



5  
Park your car and seek shelter indoors. Get out of buses and street cars.



6  
Get indoors and stay there.



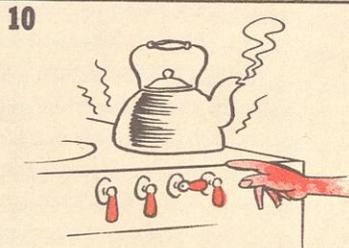
7  
If there is no shelter, lie down and protect the back of your head. Pick a protected spot.



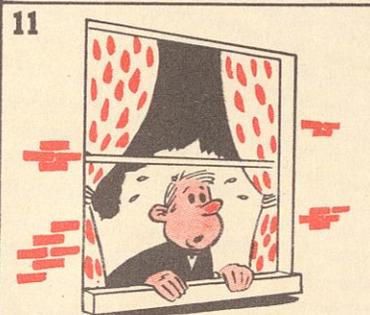
8  
Put out all lights visible from the outside.



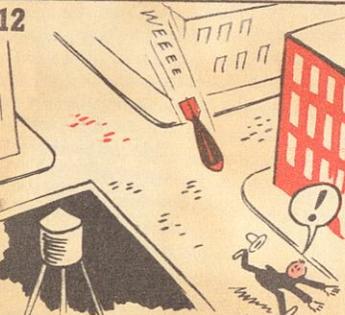
9  
Pull down all shades over blacked-out windows.



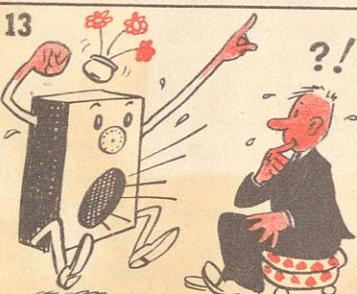
10  
Turn off stove burners which are burning, but do not turn off pilot lights. It is not necessary to shut off other gas appliances during an alarm.



11  
Stay away from windows and outside walls.



12  
Avoid open spaces, streets and parks.



13  
Keep radio on for emergency bulletins and instructions ahead of blackout.



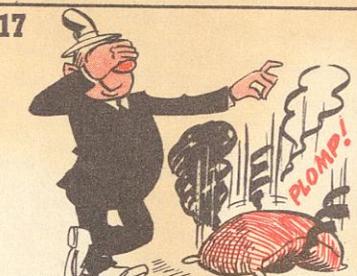
14  
Use cellars only in well-constructed buildings.



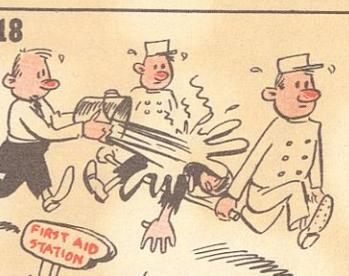
15  
If a magnesium bomb falls in your house fight bomb with spray of water and control other fire with solid stream. Use a Stirrup Pump.



16  
If a bomb falls in your house and water spray is not available remove bomb from house in a bucket of sand.



17  
If a magnesium bomb falls in street keep eyes covered and drop a sand bag or a bucket of sand on bomb.



18  
In case of phosphorous burns, keep burns saturated with water and rush to first aid station.

Your duties as civilians in carrying out instructions are as vital to the country's welfare as are those of the armed forces. Your safety as well as that of your family, neighbors and fellow workers may depend on how you act.

Follow instructions issued by the City of Portland and Multnomah County Defense Council.

Mayor EARL RILEY,  
Director.  
EDWARD L. BOATRIGHT,  
Coordinator.

Post These Instructions In A Prominent Place In Your Home Or Office

Compliments of LIPMAN WOLFE & CO.

NORTHWESTERN ELECTRIC COMPANY  
PUBLIC SERVICE BUILDING  
920 S. W. SIXTH AVENUE  
PORTLAND, OREGON



Mr. Jack Lowe  
Chemical Engineer  
Portland Fire Department  
Portland Fire College  
905 S. W. 4th Avenue  
Portland, Oregon

*An Invitation!* **To MULTNOMAH CLUB Members**  
*Incendiary Bomb Control to be Shown*  
*Motion Pictures*

A demonstration of incendiary bomb control will be given by Mr. Jack Lowe, Portland Fire Bureau, a trained specialist in chemical warfare from the Edgewood Arsenal, Maryland.

**THE DATE: Thursday, January 29, 1942**

**THE TIME: 8:00 p. m.**

**THE PLACE: Main Lounge-Multnomah Athletic Club**  
**Complimentary**

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# **INCENDIARY BOMBS**

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## **Demonstration & Instructions**

*by* JACK LOWE

*Courtesy of* **Portland Fire Department**

**Thursday, January 22, 1942**  
**8:00 P. M.**

# **Beach School**

N. Humbolt & N. Concord

*Sponsored by*

**Overlook Park Community Club**

## PRESCOTT DEFENSE COMMITTEE ARRANGES EXCEPTIONAL DEMONSTRATION PROGRAM

The Prescott Civilian Defense committee and Mr. J. G. Beck seem to have arranged with high officers of the Portland fire department to give an exceptional demonstration of the various details of air raid protection to be practiced by defense organizations and individuals. This is the same type of instruction that was planned by army experts in Portland in December, but called off during the blackout period. Since it is improbable that a Rainier date for so complete a demonstration could be secured in the near future the Prescott people have decided to make the demonstration available to local people at the high school auditorium on February 2. It is urgently recommended that everyone plan to attend this first opportunity for raid defense instruction in the community.

## Firemen To Give Bomb Control Show At Rainier

A 2½-hour practical demonstration of control of incendiary and other type bombs is planned Monday night in the union high school auditorium in Rainier. In view of the fact that the speakers billed for the evening are experts on their subjects, attendance from all over the county is sought. The program was originally intended to be presented at Prescott but because of its wide interest the location was shifted to Rainier.

Demonstrations will be conducted by Capt. Jack Lowe, chemical engineer of the Portland fire department photographer, while Captains Leo Weidner and Dale Gilman of the Portland fire fighters will comment and assist.

Lieutenant Billie of Astoria will give a short talk on recreational activities and work that is being accomplished in this line.

Monday night's program is especially important for air raid wardens and others interested in home defense, but the general public will find the show of value also, it is understood.

*R. Helms  
Sentinel*

### THE RAINIER REVIEW, RAINIER,

## Prescott to Stage Defense Program in Rainier Monday

It is respectfully urged that all who possibly can, attend the program of the Prescott Civilian Defense Council to be held at the Union High School Auditorium in Rainier Monday night, Feb. 2. This is especially important for Wardens and others interested in home defense, and of course, the general public is invited, as it is for their benefit that this show is really put on.

There will be a practical demonstration of incendiary materials—pictures, speakers, etc.

The demonstrations will be conducted by Capt. Jack Lowe, Chemical Engineer of the Portland Fire Dept. Motion pictures; through the courtesy of Dick Slater, official Fire Department photographer, with Captains Leo Weidner and Dale Gilman, commenting and assisting.

Lieutenant Billie of Astoria, will give a short talk on recreational activities and what is being accomplished in this line.

As it will be difficult to get these men again as their time is very valuable and because their program is very interesting and educational, the general public is urged to be present. It will be a two and a half hour show.

### PRESCOTT DEFENSE COUNCIL STAGES DEMONSTRATION

A very interesting and informative program was staged in Rainier by the Prescott Defense Council last Monday evening at the high school auditorium, when several members of the Portland Fire Department and others staged a demonstration on the control of incendiary bombs.

Captain Gillman of the Portland Fire Department spoke on the urgent need for the civilian population knowing what to do in case of an emergency. He stressed the great danger we are up against of forest fires in case of a bomb raid.

Jack Lowe of the Portland Fire bombs in detail, listing the types which are, the phosphorus, solid oil, thermoit and magnesium bombs. He discussed each in detail and demonstrated what each would do, how they look when they explode and burn, and what to do and what not to do in control of fires started by each type of bomb.

Just before Mr. Lowe gave his demonstration a picture was shown of the air raid on London on December 29 and 30, 1940 when 1500 fires broke out in one night. Up to that night London had depended upon its fire department for fire control. After the destruction of that raid London trained its civilian population in how to handle fires as the incendiary bombs were dropped and when a worse raid occurred the following April the fires were fairly well controlled.

Other pictures were shown at the end of the program.

Beside these speakers, others who made brief talks were George Beck of Prescott, Ray Tarbell of St. Helens, Wm. Billie of Astoria, and Leo Weidner and Dick Slater of Portland.

## Civilian Defense Demonstration Due

RAINIER, Feb. 1 (Special)—A civilian defense public demonstration, dealing with various types of bombs and incendiaries, will be staged at the high school auditorium Monday night, with several men from Portland in charge.

Jack Lowe, chemical engineer; Dick Slater, photographer; Leo Weidner and Dale Gilman will stage the demonstration and show pictures.

Brewer Billie, Astoria, chairman of recreational activities for the coastal area, will assist with the program.

The Prescott civilian defense committee planned the affair and George Beck obtained the outside demonstrators.

The city council will have its session early and adjourn to go to the high school meeting.

*Clatskanie Chief*



# PORTLAND EXCHANGE CLUB

LUNCHEON PROGRAM - HEATHMAN HOTEL

Tuesday Noon - February 3

Last week we heard how Hawaii was ruthlessly bombed by our enemy in the Pacific. Tuesday we will receive timely and instructive information concerning incendiary bombs.

Speaker----- JACK LOWE  
Chemical Engineer for the Portland Fire Dept. and  
Graduate of the Chemical Warfare School of the  
U.S. Army at Edgewood, Maryland

Subject----- INCENDIARY BOMBS

\*\*\*\*\*

President Will McCurry reports:

Any member who failed to attend the Rose City Park Lions Club show at the Hollywood theatre missed a real treat. It certainly showed what co-operation and hard work can accomplish.

Marshall Dana was the principal speaker at the Presidents Council Wednesday night. One of the pertinent points which he brought out was that we in Portland have a priority on war industries, on labor, and which concerns all of us, on taxation.

\*\*\*\*\*

At the regular monthly Board meeting the following resolutions were passed:

Any member who notifies the Secretary, Paul Wagner, or the President, Will McCurry, that he is to be absent for three or more consecutive meetings in any one month shall receive credit on his monthly dues for meals missed.

Also passed was the resolution that any member of the Portland Exchange Club who is called into military service shall be given an honorary membership for the duration of the war.

Lieutenant Commander Lester Jones, U.S.N., is the first member to receive this honor.

\*\*\*\*\*

The man with many hobbies:

Ed F. Averill is a son of the West. His mother was born somewhere on the broad prairies while the family was crossing the plains by ox-team in '52. His father as a boy of 8 came the same year. Ed was born at Chetco (no longer on the map) Curry County, Oregon, March 24, 1881 in the days when pack horse trails were the only highways in the county now famous for wild hogs, wild turkeys and wild women. Graduate, Willamette University in '05. Has been newspaper man, state game supervisor, employee of U.S. Bureau of Biological Survey (now Fish & Wildlife Service). Now operates Ed F. Averill Insurance Agency, 605 Yeon Building. Co-editor, Wildlife page, Oregon Sunday Journal.

Copy

Portland, Oregon.

Feb. 7, 1942.

Chief Edw. Grenfell,  
Fire Dept., City Hall.

Dear Sir:

We wish to extend to you our thanks and appreciation of the inspiring and instructive talk and demonstration of bomb control given by Jack Lowe, and the fine pictures depicting the actions of the home guard and auxiliary fire departments shown by Dick Slater.

There were over three hundred people at our meeting Jan. 22, and each one I'm sure went away realizing more than ever that this is our war.

Yours truly,

*Marie Robinson*

Sec. Overlook Community Club

FEDERAL EMPLOYEES UNION NO. 7  
NATIONAL FEDERATION OF FEDERAL EMPLOYEES.

Portland, Oregon,  
February 12, 1942.

NOTICE OF MEETING AND AN INVITATION TO ALL GOVERNMENT WORKERS.

The occasion of the regular monthly meeting to be held Thursday, February 19, 1942, 8:00 p. m. at Linnea Hall, 2066 N. W. Irving, Portland, will indeed be one that will tax the capacity of the Hall.

Your Committee has arranged for a demonstration of Incendiary Bomb Control to be given by Mr. JACK LOWE, Portland Fire Bureau, a trained specialist in chemical warfare from the Edgewood Arsenal, Maryland. The demonstration will be illustrated with motion pictures.

In these days of grave concern as to the future of our NATION and our homes, everyone is keenly interested in learning about what steps are necessary to protect our lives and property, in event of an enemy raid.

ALL WE CAN SAY IS TO BE THERE ON TIME IF YOU WANT TO BE SURE OF A GOOD SEAT!

ALL FEDERAL EMPLOYEES ARE CORDIALLY INVITED TO ATTEND THE MEETING. Bring your wife or husband if you wish.

AGAIN THE DATE, THURSDAY, FEBRUARY 19, 1942, TIME 8:00 p. m.

Ben A. Hundley,  
President

O. C. Burbott,  
Secretary-Treasurer.

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FEDERAL EMPLOYEES ACHIEVE GREAT BENEFIT THROUGH ENACTMENT  
OF AMENDED RETIREMENT ACT, which provides:

For retirement benefits for all Federal employees in the Executive, Judicial and Legislative branches of the Government, except for such employees of irregular or intermittent status as may be excluded by executive order of the President.

For full retirement benefits to employees having 30 years of service, upon reaching age 60, at the option of the employee.

For compulsory retirement at age 70.

For optional retirement after 15 years of service at age 62, on a reduced annuity.

For optional retirement after 30 years of service, on a reduced annuity between the ages of 55 and 60.

The Act provides that the retirement annuity shall not be less than the average annual basic salary for any five year period, multiplied by the number of years of service (not exceeding 35) and divided by 70.

The above does not change the present method of computing the annuity payable as provided in Section 4, if the amount payable under such section is greater than if computed as next above.

It will at the increased salary deduction of 5%, effective July 1, 1942, provide considerably larger annuities than at present for those employees now in the younger age brackets.

THE NATIONAL FEDERATION OF FEDERAL EMPLOYEES SPONSORED AND SECURED ENACTMENT OF THE ABOVE LAW. IT DESERVES YOUR SUPPORT. IF NOT A MEMBER ASK SOME FELLOW MEMBER FOR AN APPLICATION BLANK AND FILL IT OUT TODAY.

NATIONAL FEDERATION OF FEDERAL EMPLOYEES

LOCAL UNION No. 7

P. O. BOX 4256

PORTLAND, OREGON

February 17, 1942.

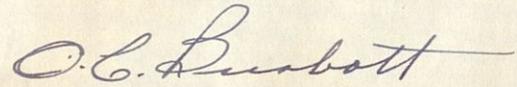
Mr. Jack Lowe,  
c/o Portland Fire Bureau, (Fire College)  
S. E. Milwaukie at Powell Blvd.,  
Portland, Oregon.

Dear Sir:

At the suggestion of Mr. Robert M. Stewart, I am inclosing herewith notice of our monthly meeting, announcing you as the guest speaker on Thursday, February 19, 1942.

We are anticipating with a great deal of pleasure the opportunity of witnessing your demonstration and appreciate your giving of time and effort to bring it to us.

Very truly yours,



O. C. Burbott,  
Secretary-Treasurer.