will make a change of one day in the division of its programs. Here after the big feature will be shown the first four days of the week and the last three will be given over to a blended program of General Film company organizations. A two or three reel feature will top the bill of short Today the feature is a five heroine, played by Barbara Tennant, is a Russian and the hero is an American naval officer

The People's will have for its Christ-mas feature "The Sign of the Cross," with William Farnum in the leading The film has been made from the dramatic play of the same name that deals with the persecutions of the early Christians and the final conversion of a young barbarian through his love for a beautiful Christian girl.

Paul Armstrong's big melodrama of the high seas, The Greyhound," is the attraction at the National for the first half of this week. The action is almost all on board ship in midocean and has to do with the interception of a criminal. The management considers it one of the best features yet offered at the National.

The Bosworth company is responsible for "False Colors," the Paramount release at the Star today. The piece is said to be a powerful drama in which right triumphs. It has been written and produced by Lois Weber and Phillips Smalley with those two favorites in the leading roles.

Portland friends of Catherine Countiss will be given their first opportu-nity to see her in the pictures at the Majestic the first of this week when she will appear with Charles Rich-man in The Idler." Miss Countiss has long been a stock favorite in Portland. Christmas pictures will form the Ma-

jestic bill the second half of the week.
"The Barrier of Flame" tops the
Sunset bill. It is a story of political intrigue with little Helen Badgley and Shep, the collie. The picture has been done in two reels by the Thanhouser, In the Conservatory is a detective play. "The Silent Way is the tale of play. "The Silent Way is the tale of a Carlisle Indian and a wnite girl "His Magic Pants" is a Keystone with Roscoe Arbuckle. The bill will be completed with the Mutual Weekly.

'My Friend From India" is the Edison feature at the Circle today only. The bill will be completed with a Selig "The Abyss." Tomorrow and Tuesday title is "The Mystic Message of the Spotted Collar," Marguerite Snow and James Cruez are playing the leads. "Little Miss Make-Believe" will be shown on the same program.

A CCORDING to the Review of Reviews, Thomas A. Edison says. Books will soon be obsolete in the public schools. Scholars will be instructed through the eye. It is possible to teach every branch of human knowledge with the motion picture. Our school system will be completely changed inside of 10 years." Continuing the article says:

"And, with his customary courage of his convictions, he has added to his 700 inventions a new system of chilis taught by motion pictures. Charmade it is tried out before different nounced at this time. kinds of audiences, the main reliance being placed on a board of censors of 10 Dr. Shaw Tells How boys (his own son being one); any-thing, which the famous inventor, and his corps of scientific experts, and his whole costly machinery of production, can't 'put over' to these youngsters is relentlessly 'scrapped.' And this audience knows not polite-ness when it conflicts with frankness."

G EORGE RANDOLPH CHESTER has had some of his dramatized stories filmed, but now he has written something especially for the cam-It is a new serial series for the Mutual called "Runaway June," in the writing of which he was assisted by his wife, Lillian Chester, who frequently collaborates with him. The story begins where most of them leave off-with a wedding. Norma Phillips, Our Mutual Girl, will play

M ARGARET VALE, niece of President Wilson, who has been playing on the dramatic stage with Guy Bates Post in "Omar the Tentmaker," has made a sensational debut into motion pictures. The piece in which she is playing is "Was He a Coward?" and her initial appearance was in a scene at Marble Hill cliff, an 85 foot eminence, from which the leading man, Barney McPhee, jumped into the Harlem river. Miss Vale played a scene with him on the very edge of the cliff and almost goes over herself. Mr. McPhee made his leap in good

MOTION pictures," predicts satisfied.
Thomas H. Ince, "will one day "You've supplant the drama. Any observer can read the signs of the times. The acting profession is now invading Filmland. As a consequence pictures of a higher technical standard are now being produced."

There is as much fear of motion pictures supplanting dramatic productions as there is for the ragtime nightmare to supplant the symphony orchestra," observes Marguerite Skirvin, who has had wide experience in both drama and pictures.

S PEAKING of motion picture sala-ries, Mary Pickford has just signed a contract with the Famous Players company for \$2000 a week. She will arrive soon in Los Angeles to join the western company. Charles Chap-lin, diminutive leading man with the Keystone, is closing his engagement with that company at the expiration of his present contract. Among offers received from several companies for his services were two with a salary of more than \$1000 per week.

THE Balboa company of Long Beach, Cal., has made elaborate anouncement of the engagement of Henry Walthall at \$1000 a week, as the first of a long list of important acquisitions made by them. Mr. Wal-thall has been associated with the Reliance and Majestic companies un- plated. der the direction of D. W. Griffith. He has had long picture experience in eddition to a successful stage career. The second on the list is Ruth Roland known as "The Kalem Girl." Miss Roland began her stage career at 4 years of age.

R HEA MITCHELL is coming on. Picture World contains an article in which she is spoken of as one of an all-star combination formed of herself, Robert Edeson and W. S. Hart. The three appeared in "On the Night Stage" and both of the distinguished sctors bespoke their great admiration for Miss Mitchell's work and agreed that she was a wonderfully accom-

Artillery Corps To See Attractions

Starting with "Quo Vadis" One Subject Will Be Displayed on Screen Each Week for Eight Weeks.

George Kleine's New York offices report the completion of a contract whereby the United States Coast Artillery corps, stationed at Fort Terry, N. Y., wil see all Kleine attractions. Starting with "Quo Vadis" one subpart story of the Boxer uprising in ject each week will be projected for China, "The Marked Woman." The eight consecutive weeks. Fort Terry is located at the lower end of Long Island where soldiers are constantly on guard duty and where a considerable force of men is regularly stationed.

ARNOLD DALY SIGNS PHOTO PLAY CONTRACT



Arnold Daly

and Pearl White is alive to tell the tale. Now the Pathe company is busthe first showing of the new Mutual ily employed in making "The Exploits that much less time for motoring or serial, "Zudora," will be made. The of Elaine" that will differ from the golf. perils in that is said to require artistic interpretation and not to de- in touch with nature-"in tune with rend upon sensation incidents for its the Infinite"-like digging in good old interest.

Charles L. Goddard, the playwright who wrote the Perils, is collaborating mind that nothing else can possibly in "The Exploits of Elaine" with Ar- give. thur B. Reeve, whose "Craig Kentucky" series has been running in the Cosmopolitan for the past four years, The new serial will probably be released in 14 weekly episodes of two parents take no interest in gardening reels, beginning the last of this month. the children are inclied to look down An important announcement in connection with the Exploits is that Ar- lieve that education is to be obtained hold Daly, the brilliant dramatic actor, entirely from books, and it is such has signed a contract to play the lead- ideas of education that are today causing role. Mr. Daly's rise from Charles ing our colleges and universities to Frohman's office boy, some 10 years turn out hundreds of graduates who dren's education, in which everything ago, is one of the interesting bits of are incapable of making a living. theatrical history. He is probably best acteristically, too, his scheme is tested known for his great success in step by step in actual practise; he has "Candida," which he produced in New prepared a list of nearly 1000 subjects, York against the advice of all friends. Educate them not for life, but with 50 or 60 of which have reached the Mr. Daly will be seen in the character life. All young animals are great imscenario stage, each one being pre- of Craig Kennedy. Miss White is the pared by a specialist; when a film is only other member of the cast an- being the greatest of all. "What mon-

She was Filmed

Suffrage Leader Prepared Speech That Would Have Required Hour and Half

pany, has this to say about her film

"With the thermometer registering 110 degrees in the shade one day in Chicago, I had my first experience in acting for the movies. I came into the glassroom, where the pictures were taken, at the call of the manager, and my part was to make a speech which should convert the hero, who was the lieutenant governor in the play.

"The thing that startled me most was how little one had to do to make a reel. Gauging the lieutenant governor by the ones I had known in real life, I prepared a speech of an hour and a half in order to convert him.

"You can imagine my surprise when the manager said I was to cut it down to 33 seconds. I told him it would be the quickest conversion of a lieutenant governor to suffrage on record. made the speech, and stopped when he form and swam some distance with have to ask you to go out and come in his clothing almost frozen to him. | better to ask you to go out and come in will be wanted. The teachers will report the number of plants to the prin-

Another Frohman In Picture Field

Gustave, Third of Pamous Theatrical Family, Will Introduce Something New-Boyalties on Scenarios.

Gustave Frohman, the third brother of the famous theatrical family, has been teh last to heed the lure of mo-tion pictures, but he has heard and plunged even more deeply than his brothers, for he is now head of a new company, the Frohman Amusement corporation. The company has introduced something new to the world of picture writers in the arrangement which it proposes in the purchase of

The company has announced that all scenarios produced by it will be paid for on a royalty basis, similar to the method in use in the legitimate field. A second unusual announcement is made to the effect that only original stories will be produced, no adaptation of either plays or novels being contem-

The plan to be used by the Frohman company calls for the payment of \$100 down and 5 per cent royalties on photoplays of from one to five reels. Comedies are preferred, but these must not be of the slapstick variety. Neither will any stories likely to be objected to by the most critical censorship be ac-

CIRCLE THEATRE #4.5 Now 5c

The House of Single Reel Features Hear the \$10,000.00 orchestra every afternoon and evening.

GARDEN WORK MAKES FOR BETTER HEALTH EXPERT'S ASSERTION

Practical and Healthful Side of Outdoor Diversion Put Forward by H. E. Weed.

IN TOUCH WITH NATURE

Pupils Will Be Asked to Plant Berry Vines in Back Yards to Make City Beautiful.

By Howard Evarts Weed, Garden Supervisor.

City beautification should be practical beautification. Roses make a fine showing for the parking strip and the front yard, but the back yard should be planted to vines and small fruits that will be useful as well as orna-The average city lot of Portland is only 50 by 100 feet, and the house occupies so much of this that very little space is left for planting, either ornamental or otherwise. The ideal home lot should have space in the front yard for a central lawn with a border of shrubs and roses and the back yard should be large enough for the family vegetable garden. Garden Work Healthful.

The general complaint of the high ost of living has come along with the decrease in the number of family vegtable gardens. A generation ago the family garden was practically universal; there was no need for school garden instruction, for the pupils received such instruction in the homes. But as villages have become cities, village acres of former years have become city lots. There is now not only but little space for the family vegetable garden, but there is even less inclination on the part of the family head to have such a garden. He feels that hee can buy the vegetables as cheaply as he can raise them, saving both the bother and labor involved. The fact is also that any time taken up with the vegetable garden means

But there is nothing which puts one mother earth. It gives one fresh air. exercise, ambition, health of body and

Practical Side Urged. It is therefore to be regretted that the average city dweller has no inclination for a vegetable garden.

If we expect our children to receive a practical education we must educate them along the practical lines of life. itators, the young of the genus homo monkey does." Parents should establish a family vegetable garden and encourage the children in its cultivation as the best aid to a practical education. School gardens are not so much needed in localities

having home gardens. Portland is expecting to entertain thousands of visitors during the coming year. Thus Portland homes should look their best. The Rose Festival and to Deliver-Was Allowed 33 Seconds. other civic bodies are doing a much Dr. Anna Shaw, who is one of the needed work along the line of city stars in the suffrage story, "Your Girl beautification. All the other cities of the northwest, especially Tacoma, are and Mine," written by Mrs. Medill Mc- working along the same line. The pub-Cormick, and filmed by the Selig comto this movement in a thoroughly prac-

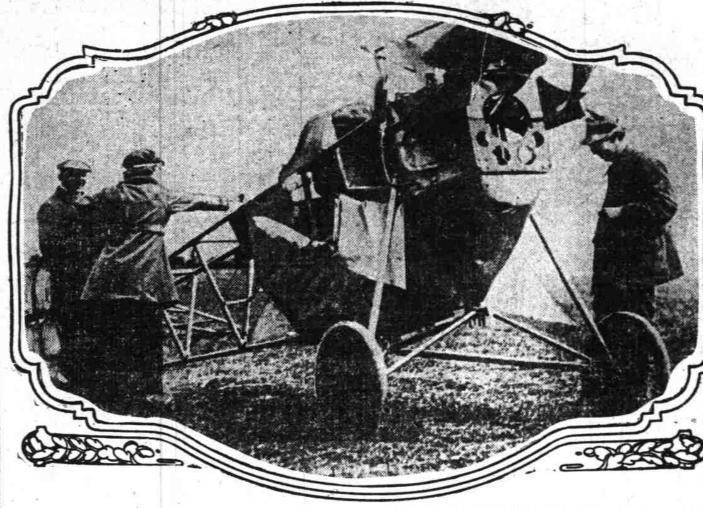
> tical way. Planting of Vines.

Superintendent L. R. Alderman has suggested the planting of one loganberry vine and one grape vine along each back fence. The vines will not only make a beautiful foliage on the fence, but will produce useful fruits as an aid for the family garden. It is proposed to distribute these plants at cost to the pupils through the garden department of the schools. The cost will be only 5 cents for two plants and each pupil may have one of each than air. or two of the same variety as may be desired. The plants will take up small space when planted as proposed, and any particular vibration or thus even the smallest yard will have room for them.

Soon after the holiday vacation each teacher will be asked to canvass the can be found. gave me the signal, but he wasn't sat-lsfied. Get more action." he said. 'I'll berry plants and how many grape vines the process four times before he was cipals, who in turn will inform the cillations of this spark, because two satisfied.

"You've made a speech 27 feet long," the plants will be made in the schools oscillation. said the manager to me when I was in February, with full directions as

DEVELOPMENTS IN POPULAR SCIENCE



-Photograph copyright, 1914, by the International News Service. A damaged French monoplane left on the battlefield at Namur.

usly high-pitched sounds; therefore at war is employing portable wireless

Hunger Secrets Bared. DROP of beer in the stomach of

A a hungry man will stop the hun-ger mechanism from operating, according to Professor A. J. Carlson, physiologist of the University of Chi-Professor Carlson bases his observa-

ions concerning the effect of beer on experiments with his own stomach. He found that a drop of water pro duced the same suspension of the hun ger mechanism operation in a subject, and that a drop of normal gastric juice would appease the hunger of a

He declares hunger is caused by the repeated contraction of the upper part of the stomach, a mechanism which functioned independently of the central nervous system in the brain.

"We did not discover an instance where hunger was stimulated by sight, smell, thinking, or any nervous activity," he said. such activity inhibited the hunger mechanism, particularly in dogs, and that great emotions had a similar ef fect in men. The mechanism functions as well, or better, in sleep as in waking."

Locating Shrapnel by Telephone.

CHRAPNEL divining by telephone is being practiced in the military hospitals. The apparatus used is the Hugh balance, consisting of two electrical reels to which an ordinary telephone is attached. The reels are run over the body of the wounded patient and the telephone buzzes when the reel passes over a hidden bullet or fragment of shell. .

How Science Hears.

T might be asked, how do savants, with ears no better than the rest of humanity, discover that there are such things as inaudible music and unheard noises? The explanation is simple enough, says Dr. Hershberg in the Philadelphia Telegraph. The electric spark gives out waves of sound so short and high-pitched that they cannot be heard. It is, then, a question to ascertain the number of vibrations or oscillations.

At the end of a long, horizontal brass tube the electric spark is arranged to appear. Along its length is sprinkled a little lycopodium powder. As the sound waves progress along the tube they set the lycopodium powder in motion. It takes it away from the crests of the waves—the points of least motion-and spreads it in the trough, where most motion occurs. This same method is used to discover the velocity of sound in other gases

The distance is measured between the little heaps of dust produced by since the product equals the frequency of vibration, times the length of the waves, the velocity or unheard tone

Sounds in this way have been measured, though inaudible to human ears, Birds, insects and other creatures

through: 'That ought to be long to planting. It is thought that nearly have been found to perceive, pay at-

Indian and a white girl—

10c-FOUR BIG PHOTO PLAYS-10c

The Barrier of Flames

A Two-Reel Tanhauser dealing with political in-

trigue and showing Shep, the Collie, and little Helen

'In the Conservatory' The Silent Way

The Cleverest Detective | Adventures of a Carlisle

HIS MAGIC PANTS (A Keystone)

One of Fatty Arbuckle's funniest, and The Mutual

Weekly of Current Events—Up-to-the-Minute Films of World Happenings.

Extremely interesting. | showing Indian life.

Badgley in a stirring rescue scene.

Play of many months-

THEATRE

Washington

and

Synthetic India Rubber. T a recent meeting of the Iron

more (auditory) sense than all men.

ucts in steel manufacture. He discussed rupters, collapsible antennae, etc., are lumination and heating, and the later slags. under years, but a new idea was presented armies of the dual alliance and the

at this meeting looking toward the triple entente to keep in communicasynthetic production of India rubber tion with their base, wings and reinfrom coke-oven gases. The president's forcements—a task impossible in modwords were: to obtain from it the hydrocarbons, the derivatives of which were found in India rubber, and experiments that "We did find that had been made permitted the foreshadowing of the manufacture of ardificial rubber."

> Military Portable Wireless. UICK and efficient communication

50 to 250 miles is no longer posmagazine. tion, and every one of the powers now mans the companies have been re-

it is known that these brutes have telegraph plants carried on motor truck chassis geared for speeds of 25 to 35 miles per hour. The truck mofor drives an electrical dynamo which generates the primary current of the high tension transformer necessary in and Steel Institute in London the radio transmission, and the complete president read a paper on by-prod- paraphernalia of condensers, interthe utilization of blast-furnace gases carried on the truck, which is generfor operating gas engines and for 11- ally fitted with a protecting shield for the driver and a special levelopments in making nitric acid body with sliding paneled sides which from these gases, and also the manu- can be tightly closed in stormy weathfacture of bricks and cement from er. These motor truck wireless out-All these matters have been fits having an effective land range of discussion for a number of 200 to 300 miles have enabled "It was being sought ern warfare without the radio telegraph and-most important-the mo tor truck on which to move swiftly the instruments and their relatively large space-requiring auxiliaries from

Standard Drinking Water.

OR the past two years the United between the tremendous forces of combatants with horse forces of combatants with battle fronts shall furnish pure water for passengers traveling in interstate traffic, sible by scouts, couriers and helio-graphic devices, says the Engineering der to determine that the water fur-The long-range combat nished by railroad and steamship comwith terrible engines of destruction panies is free from organizisms or means radio or wireless communica- material likely to carry disease to hu-

quired to furnish certificates of ex- her employer and her fellow amination of the water signed by state ployes or municipal health officers within whose jurisdiction the water was ob-

In making the laboratory examina tions of water, experts soon realized that it was desirable that a definite standard of purity should be fixed by the government, and, following out suggestions made, the secretary of the treasury, of whose department the public health service is a branch, appointed a commission of 15 prominent hemists, bacteriologists and health fficers, from various parts of nited States. After working for ore than a year the members of the ommission came to an agreement upon the standard of purity for drinking water which would safeguard the realth of the traveling public. Bacteriological tests are made of the

water, and if the number of colonies found in 15 drops of the water exceeds 100, the water is to be rejected as unsatisfactory. Any count less than 100 olonies per plate is considered a safe limit of permissible bacteriological

JUST ASK YOURSELF

By Jessie Roberts.

RE you one of the many girls who A are out of a job. lot of you this year, and the causes are many.

But suppose you ask yourself just

why you were the one. It may not have been your fault It may be because the firm really was too hard up to keep an excellent

worker, a bright, pleasant, willing,

In that case you have only to be-wall your hard luck, brought on by force of circumstances beyond the

control of any single person or group of people

But possibly there is a reason near

If so, you want to find that reason, and, should it lie in you, eliminate it. When the boss was toting up e penses and receipts, and feeling that he must economize, must cut down ooked that force over very carefully He wanted to keep the best ones only, those whose presence in his business

was indispensable, those who brought

in more than they took away in the shape of salaries, As it happens, you were not one of these, and he let you go. Probably he was sorry, but he had to do it. He could get along without you.

Try to discover why he could do is, why you were not worth, to your own firm, in a pinch, the amount you were paid. It will be an interesting subject of study, and it may help you to certain realizations. The next job you get will benefit by this study of yourself. Be sure of that. When an-other time for cutting down comes, ou may most likely be the one choser to stay. It is worth thinking out,

> Same as Being Away. From the National Monthly, Neighbor's Little Girl-When u get back, Mrs. Browne? Did you

ave a nice time? Neighbor-Why, I haven't way, my dear.

"Haven't you, really? I'm sure heard mother say you and Mr. Brown and energetic young woman, liked by had been at Loggerheads for a week!

Today, Monday, Tuesday, Wednesday

BARBARA TENNANT

The Beautiful and Talented Actress in

The MARKED WOMAN"

Five-Act Dramatization of Owen Davis' Powerful Story Produced by THE SHUBERTS. One of the Greatest Dramatic Triumphs of

the Season. An Offering of Magnificence and Dazzling Splendor, with a Story of Intense Human and

Strong Heart Interest. TEN CENTS—ANY SEAT—TEN CENTS

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Charles Richman AND STUART HOLMES
A \$10,000 CAST CLARE WHITNEY

THE IDLER"

By C. Haddon Chambers AS PRODUCED BY DANIEL FROHMAN

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William Farnum

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Lois Weber Courtenay Foote Herbert Standing

A play of intense dramatic expression, dealing with the crime of self-love. Intimate views of stage life behind the scenes.

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10c-ADMISSION-10c