

## Newberg High School News

EDITED BY STUDENTS OF THE ENGLISH DEPARTMENT.

GALLEY SEVEN .....  
 High School .....  
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### CHEMISTRY CLASS VISITS GAS PLANT AND PAPER MILL

The chemistry class of Newberg High school made a trip to Salem on Tuesday, April 12, to visit the gas plant and paper mill there, and to learn something about the methods used in the manufacture of gas and paper. The trip was made in three cars. The company left Newberg about 8:45 a. m. and arrived in Salem at 10:20.

The gas plant was visited first. The superintendent was secured to explain its mysteries and to keep the party out of trouble. The apparatus at the gas plant is rather difficult to understand and is in such a position that the main parts are not accessible. The superintendent drew the plan of the furnace with chalk to explain its working principles to the class.

The gas is obtained from soft coal, which is heated in a furnace in the absence of air. Coke, which is obtained as a by-product in this process, is used to effect the heating. The gas is led through various apparatus to free it from the coal tar and other products which come off with it. The coal tar is saved and sold as a by-product, to be used principally in the manufacture of roofing. After the gas has been purified it is pumped into a large tank, from which it is fed into the city mains as needed.

When the tour of the gas plant was finished the students were excused until one o'clock at which time they reassembled at the paper mill. Some difficulty was experienced at this time in getting someone to accompany them through, but finally a man volunteered for the big undertaking and they proceeded through without mishap.

The material used in the production of paper at this plant is white fir, which is delivered at the mill in the form of ordinary cordwood. It is thrown onto an endless chain one stick at a time and is led to a large circular saw which cuts it into pieces of ordinary stove length. The bark is then removed by means of a barking machine which consists of a large revolving disc with knives appended. These slice off the bark when the stick is held with the bark against the wheel. There are four of these machines. One man is kept busy at each machine, barking the wood as it comes past after being sawed. After the wood has been barked it is thrown on another chain which leads it to the chipper, where revolving knives cut the wood into tiny chips. It is then sent into storage tanks where it is kept until needed.

The next step in the process is the treatment of the wood with something to soften it. The substance used in this plant is calcium bisulphite obtained by the action of sulphurous acid on lime. The sulphurous acid is made at the plant by burning sulphur in air and dissolving the resulting gas in water. The calcium bisulphite and the wood are heated together in a large steel tank called a digester. There are two of these digesters at this plant.

When this process is finished the wood pulp is blown out of the digesters with steam into large storage tanks containing water. From these tanks it is passed through a machine which sifts out the knots, which do not cook up. Part of the pulp is then piped across to the mill where the finished paper is produced and part

of it is run through a small machine which transforms it to a sort of crude paper consisting mostly of water, but which can be folded and stored until needed.

The pulp which is piped across passes directly into the machines. The other pulp is trucked across in the form of heavy blanket-like sheets and is beaten into tiny pieces by means of beaters. It is then ready to go into the machines with the other.

The pulp, much diluted with water, is then passed over screens and, but lumps and impurities are screened out. The strained and purified pulp then flows onto an endless traveling wire cloth with a very fine mesh. The water is thus drained away from the pulp but some pulp passes through so the water is saved and used again.

At the end of the wire are couch rolls, covered with felt, through which the wire passes bearing the web of paper. These rolls press the water out still more and consolidate the fiber, giving it strength to cross along the gap between the wire and the felt of the first press roll. The press rolls and compresses the paper still more and gives it a smooth surface.

The paper is now formed and the remaining process is one of drying. This is accomplished by passing it through a succession of steam-heated rollers. When the web of paper is thoroughly dried it is wound on a reel.

When the tour of the paper mill was completed the company visited other parts of Salem and they returned to Newberg at 7:00 o'clock in the evening. Those making the trip were Ethel Bush, Fieda Thurston, Royal Gettmann, Edward Kirkpatrick, Herbert Owen, Delfard Knapp, Richard Joyce, Ferris White, Frank Lutz, Robert Bennett, Ralph Bennett, Walter Stanbrough, Larome Rankin and Mr. Mathews, instructor of chemistry.

(Signed) Ralph Bennett.

### TEACHERS' TRAINING CLASS

Last Thursday, April 14, the students of the Teachers' Training class observed country schools. They visited the schools where all grades were taught by one teacher. The class members were very much interested in the work they observed, as they visited schools taught by experienced teachers.

Elfrieda Holznagel and Cornelia Titus observed at Cipole; Mary Sanders and Blanche Brown visited Uplity; Ida Weber observed at Raybelle; and Emmo Kilthan at Chehalem Center.

### HISTORY VII DEBATE

Last Thursday History VII debated on the question: "Resolved, that capital punishment is wrong." Maurine Youngs and Rose Ssaad were on the affirmative side, while Juanita Atkinson and Kenneth Newlin were on the negative. Miss Applegate and Henry Graves were judges. The debate was a tie.

### HILLSBORO VS. NEWBERG

On Friday, April 15, our baseball team went to Hillsboro and defeated the Hillsboro H. S. 10 to 5. Hillsboro succeeded in making a run in the first inning. This was the only time they were ahead, as we tied the score in the second. With the bases full in the third Mainwaring got a double which scored two runners. From then on Newberg kept in the lead. The batteries for Newberg were Nelson and Thomas while Johnson, Rannow and Olanie formed the batteries for Hillsboro. This is the third game won this season, and, as

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### AGRICULTURAL BASE BALL

The Agriculture department reports considerable enthusiasm over its baseball team. One game has been played to date, in which the Farm Animals class defeated the Field Crops team to the tune of 14 to 10. The victors have no reason to crow, however, as they had something like five regular team men, while the other team had none.

Clausen Brooks started the game for the "Animals," but weakened and was spelled temporarily by Reese Mainwaring, who was promptly knocked off the mound by the hard-hitting "Crops" outfit, to be replaced in turn by the refreshed Clausen. Willie Sanders was on the receiving end for Brooks.

Walter Cole pitched a splendid game for the F. L. Crops team, with Burbin Graves receiving. The star of the game was young Elery Parrish from Fernwood, who covered the "Crops" second sack like a veteran, and clouted the ball all over the lot. The winners have been challenged by the Farm Home Projects bunch, among whom we have such capable players as Lutz, Sturgis, Owen, Winters, Burgoyne, Davis, Parrett, Mellinger, Weston, Johnson, Cuthill, Roellich and Carlisle.

### HAPPENINGS IN MR. ANDERSON'S CLASS

The fourth term Latin class will soon finish reading the fourth book of Caesar's Gallic Wars, while the third term class is about to begin the second book of Caesar.

When the fourth term French class finishes the story of Colombia, they will read a French play entitled "Le Voyage de Monsieur Perrichon." The second term French class can now sometimes lay aside their struggles with French verbs and pronouns and enjoy reading a French book of travels in the pleasant land of France and converse in French about it.

Herbert and Raymond Martin are distinguishing themselves in Geometry by developing some original proofs.

### "DOROTHY, A DAUGHTER OF ALASKA"

"Dorothy, a Daughter of Alaska," is the name of the five-reel play which is to be given at the Baker theater, Thursday night. This play is the only one ever made in Alaska and is educational as well as entertaining. Mr. Lewis, known as Blacklock, the famous sourdough, will be here in person and will explain the pictures as they are thrown on the screen. Mr. Lewis spoke at the High school about a year ago concerning his work in the north and all of the students were interested in what he had to say and in the relics which he had on display. All are looking forward with pleasure to seeing this film. Mr. Lewis agreed to give the High school forty per cent of the proceeds.

### NOTICE OF THE APPOINTMENT OF EXECUTORS.

Notice is hereby given that the undersigned have been duly appointed, by the County Court of the State of Oregon for Yamhill County, as executors of the last will and testament of Ella C. Duncan, deceased.

Therefore, all persons having claims against said estate, are hereby notified to present the same, with proper vouchers, to the undersigned executors at the law office of C. R. Chapin, at Newberg, Oregon, within six months after the date of the first publication of this notice.

XAVIER B. DUNCAN, ELLIS WINTERS,

Executors of the last will and testament of Ella C. Duncan, deceased. C. R. Chapin, attorney for estate.

First publication, March 31st, 1921.

Last publication, April 28th, 1921.

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 Then mix in the regular way.