JUNDAY OREGONIAN, PORTLAND, JUNE 18. 1911.

MEDFORD HIGH SCHOOL HAS FULL COURSE IN PRACTICAL AGRICULTURE

Students Give Book Work and Actual Experiences in Every Branch of Successful Farming Under Guidance of Professor Hall-Other Schools Adopting It as Course of Study.



FOUR YEAR OLD APPLE TREE AFTER SEING PRUMED ST MEMBERS OF THE CLASS TRIDER PROFESSOR HALL'S DIRECTION.



HUNTING INSECTS, AND FURIEUS OROWTHS IN AN OLD APPLE TREE.

chard systems, in the planting of tress, in-westigation of molature conditions of the soft, lessons in pruning, taking of weather observations, records and handling instru-ments, sorting and packing, a systematic study of the principle commercial varieties of fruit, drawing of plans for packing tables and houses, the mixing and application of sprays, observation and study of as many of the above-mentioned pests as can be se-cured during the year. The course in animal husbandry in-cludes everything from the best cure for plant lice to the art of disembowel-ing a beef animal for the market. This

for plant lice to the art of disembowel-ing a beef animal for the market. This course also includes frequent trips to the surrounding farms. The theoreti cal side of the study is carried or through the use of text-books, refer-ence books, state and Government sta-tion buildetins and lectures, while the practical side of the training, on which the greater emphasis is placed, is taught by laboratory exercises and ex-periments, visits to farms and markets and by field research work. The courses in agriculture as out-lined by Mr. Hall are as follows : Agronomy—This course shall deal with

Agronomy-This course shall deal with plant life and its relation to animal life and the soil, dealing chiefly with farm

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KING'S HEIGHTS GETS CARS

First Winding Trip Around Hill to Be Made Today.

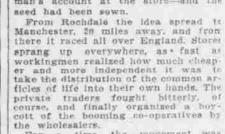
Streetcar service will be extended over King's Heights beginning this morning. The cars will be run to the highest point of the hill and later will be extended in a westerly direction when the new section will be supplied with service. The view from King's Heights embraces the Willamette River clear to the mouth where it joins the

Columbia. The line traverses several miles in The line traverses several innes in its winding process around the hill. At several points the railway runs close to the edge and the observer may look down several hundred, feet from the cliff. The work of stretching the wire cliff. The work of stretching the wire and placing the poles was completed last week to the distance desired and it will be several weeks before it is completed to its full length. For the present the cars will be run from Twenty-third street only. Later, when all of the wiring and the work of plac-ing the rails is completed, we cars will run down to Waskington street and will return by the same track. When the first car is run a delega-When the first car is run a delega tion of rallway men and promoters in terested in the King's Heights property will make the trip and the event will be marked by ceremony in honor of the long-sought achievement.

# CO-OPERATION IN ENGLAND APPLIED SUCCESSFULLY IN MANY LINES

Spirit of Change in British Affairs, Commercial and Industrial, Most Marked-Municipalities Are Now Taking Over Big Enterprises From Private Hands and Working Them for People.





the wholesalers. For a time the movement was stumped, but in 1863, in the midst of England's cotton famine, caused by the American Civil War, the Co-operative Wholesale Society was founded, and from than till now the triumphant progress of the co-operative stores has never been checked.

BY ARTHUR M. GEARY. N order to actively meet the special needs of the community the Med-ford High School has added a course In horticulture to its curriculum. Three years ago the school was the pioneer in introducing the study of agriculture in the state. The classes in agronomy, aniwal husbandry and farm management installed at that time became so popuiar with the students and with their parents that if was decided at the beginning of this school year to add the surse in horticulture for the seniors. who had already availed themselves of the training offered in the agricultural department.

The planning of the borticultural course was left to Professor S. B. Hall. who has been instrumental in the initiation of the agricultural course. Mr. Hall is a graduate of the Oregon Agricultural College, class of 1969. He also received a valuable training as to the special needs and conditions of horticalture in the Rogue River Valley while In the employ of the Oregon Experi-mental Station under Professor Lowis. In molding his course, Professor Hall sought to teach the general principles of the science of horticulture and from them branch upon a careful study of the particular conditions of fruit-growing in the Rogue River Valley. The main fault that the horticulturists have found with the work of the graduates of agricultural colleges is that a gen-stal training in horitculture did not give them knowledge of the allowances That must be made for for an acoustions. These peculiar conditions of each lo-cality can only be learned by associa-tion and experience with them. Here the students in high school have the advantage.

advantage. Professor Hall has carried on his work in teaching bortleuiture, by inc-tures, reference, reading, laboratory work and frequent trips into the sur-rounding orchards and gardens. Mr. Hall was raised on a farm near Fair-

The boys especially take a vital in-terest in the work of this class. Many of them are planning in time to take barge of their father's orchard or hope to some day have one themselves By learning the rudiments of horticul-ture, while in high school, they are able to determine whether this particular calling will appeal to them as a life work. It seems that the study of horticulture in the high school is of such an attractive nature that many boys would be influenced into this work of production on the farm if

courses were generally installed in the high schools of the state. The Pendleton High School has al-ready laid plans for installing a like course in its curriculum next year. The study of horticulture has been taken up extensively in the California schools and the movement is spreading north-ward. The plan is not to supplant the work of the agriculture colleges, but to give to the students a foretaste of and preparation for their work at col-lege and to give a valuable and prac-test when one who can not af-

lege and to give a valuable and prac-tical training to those who can not af-fixed to go to an agricultural school. The class work of the year's course in horticulture offered by the Medford High School embraces the study of the following subjects. Different ways and methods of propo-mating and handling the various kinds of finit, herries and strubbers. A study of the selection of archard locations according to soli, climatic conditions and transportation facilities. Selection of stock for variaty.

parentaga, vigor, age, etc. Systems and practices of laying out orchards. Care and inspection of stock before planting. The stock of the stock before planting is the result of the stock before planting. The stock of the stock before planting. The stock of the stock before planting is the stock of the stock before planting. Relation of farm animals to the orchard. Front ef-etes and control. Effects of wind and sus, destands of orchard lands. Fortilization, destand the loading, ising and pre-cooling fears Mudy of boxes and crates. Store-tones and packing, bousses. Qualities of the stockards, the life history, location, methods ones. The blatters of stores diseases, shored as a growth, methods of reproduction and spread, effects and control. Bacterial diseases, life blatory, mode of attack, effect and control. attack. effect and control. Physiological troubles. The building up and protection of markets. The demand and fluctuation of the large markets. Market quotations as they appear in the daily pa-pers. A comparison of the different horti-cuitural societies and fruitgrowers' organi-rations as to their work, as being of bene-fit to its members, the community and the industry. Framing of constitutions to fit different conditions. The laboratory work consists of: Exercises in making hardwood cuitings.

The injurious fungue diseases, character of | of nursery

The informatory work consists 02. Exercises in making hardwood cuitings softwood cuitings, leaf cuitings, invering and healing. In the planting of seeds, in budding, in grafting, in transplanting, in the manu-facture of grafting wax, in the examination of nursery stock, in the laying out of or-

### Night Billposter Is Sought.

J. Schmidt, of 506 Flanders street, is accused of posting signs about the city Friday night attacking the brew-eries and declaring his intention to tell soon why equal suffrage was defeated The palice are looking for him with intent to file a charge sgainst him, alleging violation of the bill-posting



#### ABOVE, INSIDE OF CO-OPERATIVE BAKERY. CENTER, LEFT, A CO-OPERATIVE OBJECT LESSON; RIGHT, ROBERT OWEN. BELOW, A STREET IN A CO-OPERATIVE TOWN.

ONDON, June 17 .- (Special.) - The , deed if he fails to be shaken at times traveler who brings to England by the piled-up evidence of his colosthat healthy National prejudice | sal mistake.

He may get out of it, as many of us holds all Englishmen to be incurably slow and "behind the times" do, by insisting that most of the husmust be a thick-skinned individual in-

GRAND LODGE OFFICERS, ORDER OF THE EASTERN STAR, ELECTED IN PORTLAND LAST WEEK.

that



Reading from left to right the officers are, in the top row-Miss Nellie McKinley, grand secretary, Mrs. Nellie Baldwin, Mrs. Maude West, Mrs. Nellie McGowan, Mrs. Alice C. Gibbs, Mrs. Ella Evaus. Second row-Mrs. Mary E. Johnson, James E. Godfrey, Mrs. Margaret V. Hayter, Mrs. Pauline Moore Riley, worthy grand matron; Clyde Evans, worthy grand patron; Mrs. Margaret E. Kellogg. Third row-Mrs. Katherine Freeman, Mrs. Dea R. Schille. Mrs. Dora B. Schilke.

The 22d annual session of the Grand Chapter of Oregon, Order of the Eastern Star. closed Thursday afternoon with the installation of the newly-elected officers by Mrs. A. Antoinette Stiles, past worthy grand matron. Mrs. Pauline Moore Riley, who was elected worthy grand matron succeeding Mrs. Jennic Rinehart, resides at Baker. U. J. Boyd, of this city, was succeeded as worthy grand patron by Clyde Evans, also of this city. This year's convention was one of the most successful conducted in this state by the order, which has a membership of 2000 in Oregon.

tle and enterprise that have lately been rupturing precedents over here are due to roll-top desks, typewriters, Amer-ican salesmen, and such like products purely transatiantic. But these are only superficial influences. The spirit of change in England's affairs, com-mercial and industrial, is far bigger than anything that has been altered by the introduction of elevators or cash registers. Thus, while American commercial

prestige may be said to rest on the brilliant but desperately unconnected efforts of notable individuals, the spirit of change in England has moved not so swiftly, but a great deal more sig-nificantly through the collective ef-forts of great masses of men.

### Co-operation Brings Results.

Conceive, then a body of working men so banded together, with 70 years' accumulated hard work behind them, a membership almost touching three mil-Hons, possessing a long-since success-ful plan of running all kinds of industries and distributing all kinds of products to suit themselves. Conceive of these things in their proper magnitude by considering the annual trade of 600 millions they will support, and you will see what is meant by the real innovations England has made in modern business-for these are none other than the fruits of the most revolutionary element in English trade today, the perative movement.

It may be said at the start that Englishmen de not appreciate the im-portance of this amazing development of co-operation. Like so many start-ling things in England, it is taken for granted. Nor do the co-operators themselves, particularly the older ones, themselves, particularly the older ones, get unduly excited over the vista opened up before them. Up at the central offices of the Co-operative Wholesale Society in Manchesier are found many functionaries exhaustively versed in the imposing statistics of co-operative trade, in the scores of farms and factories, and the multitude of products turned out, in the profits and the dividends, and the vast material wealth of the corporate societies. But there were a few men who were not submerged by these things, who viewed the co-operative idea not as a huge business, but as a working ferment among the people, making for a change of life.

### Co-operation Is Revolution.

But co-operation is so familiar a working force in England that Eng-Ishmen are greatly surprised to hear it called a revolution. Yet so it is, as a glance over its eventful history will demonstrate. Co-operators re-

The whole business has grown up to colossal proportions. Besides the great cotton mills, woolen mills, bis-cuit factories, jam factories, the and ironware works, potteries, printeries and the innumerable variety of indus-tries controlled in England, there are to plantations in Ceylon, grain eleva-tors in Canada, and plans under way for cotton plantations in British East Africa and Nyassaland. But the material aspect of the move-

But the material aspect of the move-But the material aspect of the move-ment, however enormous, is still not at all the most important. It is a deal more significant to read that \$450,000 is spent annually for education and libraries among co-operators than to marvel that taey divide up \$50,000,000 a year profits. Of this latter sum each of the 2.780,000 members receives about \$18 x year, but he gets a great deal more than that out of the spirit of the theory as avpressed in the money

deal more than that out of the spirit of the thing, as expressed in the money spent on stirring up his ideax. The co-operators have started three things in England, two of which have now been taken under state control, and the third is fast inclining that way. The common interest and in-centive of co-operators founded a free library in Bolton long before anybody fell the need of running these things in the name of the community. Forty years ago, co-operative libraries were dotted all over England, marking the only way to an education for thou-sands of working men and women. To-day they have been bought out by the town councils, but they have rendered

town councils, but they have rendered a service forever invaluable in first stirring public epinion to some realization of whither common effort was to

tion of whither common effort was to be directed. The same thing precisely happened in the case of technical schools. Even-ing trade schools, on the plan of the Cooper Institute in New York or the Franklin Institute in Boston, were set up everywhere by the co-operators as a necessary part of far-seeing co-oper ative effort. Again the town councils saw the public advantage and the coative effort. Aggin the Lown conincils saw the public advantage and the co-operative societies are today relin-quishing their hold on technical edu-cation, with the sure knowledge that

they are passing it on to broader publie control.

lie control. The venture now in its evolutionary stage is a far more vital matter than either of these—the business of hous-ing. Here again the lever of the co-operative effort has been amazingly effective. Upwards of 35,000 houses are now owned by co-operators themselven or leased from their societies, accord-ing to the system pursued. All the "gardan city" and municipal housing projects have sprung from this initial incentive: so now in England well over 100,000 houses are the direct fruits of communal effort. This foraging into the future seems to be the mission of co-operative pion-ers. The spirit of accumulated en-terprise pervading the whole move-ment is the most quickening agency among Englishmen today for better and fairer industrial conditions. There is real enterprise here which even the share is form the security con the share is reading for the stage. The venture now in its evolutionary

is real enterprise here which even the skeptic from Missouri can recognize and appreciate.

## Kansas Has Harvesters Enough.

TOPEKA, Kan., June 17 .-- Charles Harris, director of the State Free Em-ployment Bureau, issued a warning tosoon demonstrate. Co-operators for gard 1844 as its birth year, for then it was that the famous co-operative store was opened by the poor weavers of Rochdale. There were 28 of them, all told, and they put in \$5 aplece and rented a rickety old warehouse in a little street that went by the unattrac-