

PROGRAM ARRANGED FOR ART EXHIBIT

(Continued from page 14) by the great Da Vinci are "The Last Supper", the mysterious "Mona Lisa," and "The Virgin With St. Anne."

"Rialto Bridge" One of the most interesting spots of Venice is this famous Rialto bridge. From this particular point may be had the most magnificent views of the Grand Canal, the many gondolas, and the city itself.

The Rialto Bridge was built in the closing years of the sixteenth century by Antonio Contino, who also built the equally famous Bridge of Sighs. He later came to be known as "Antonio of the Bridge."

Lepold has given us a wonderfully artistic interpretation of the subject, and has chosen a moment when the atmospheric conditions are quite hazy. A heavy fog appears to be just settling down over the city, and he has caught a particular moment when the great palaces are silhouetted against the heavy banks of clouds.

SALEM PUBLIC SCHOOLS PRODUCING MECHANICS

(Continued from page 14)

It was part of a farm and there was a big red barn on it. As the district was too poor to build a new manual training building, Mr. Olson proposed converting the barn into the present wood working department.

It would pay any parent having boys in South Salem Leslie junior high school to go and look over the old red barn that has been converted into a manual training department. It is a big, cheery work shop and a valuable piece of property for the Salem school district.

Boys working at manual training as conducted in Salem learn a great deal about the value of material, the value of time, and learn something about the value of another fellow's time.

Making Useful Things Instructor Olson has to his credit a lot of things for the equipment of the Leslie school like bicycle racks and tables for work in draughtsmanship, and with proper equipment the manual training department could supply almost anything needed on the grounds or the school rooms.

From Old Cow Barn This shop was rebuilt and equipped for a manual training department by Mr. Olson and one carpenter and the labor of a number of the boys. The old cow barn 14 by 24 would not be recognized by the cows if they came around now and gave it a bovine once over. It is some task for one instructor to put ten classes of 16 each through the wood working shops every day, and they are a busy, happy lot.

At Parrish Junior High There are two instructors in the manual training department at the Parrish junior high school on East Capitol boulevard, Ernest S. Barker and D. T. Pulp, who has added a special class on electrocraft, tools, implements, and work.

We now come to the metal working department at Salem high in charge of Mr. E. E. Bergman, who has taught in this field for 13 years, 10 of them in Salem. For a young man he has had a tremendous practical experience. He installed a door bell or a buzzer on the dining table. Mr. Barker has been instructor in wood working in the Salem public schools for eight years, four in the Grant school and since then in his junior high. A carpenter and joiner, as the trade is named in England, turns out products similar to the work done in the shops at Leslie junior high. The y have also a wood turning lathe and in addition a planer and combination saw. Here are some of the things for the home made by the older boys: a leg rest for grandpa, telephone stands, umbrella holders, piano benches, taboretts, breakfast tables, radio cabinets, cedar chests, writing desks, and tray racks for the cafeteria departments in Leslie and high school.

What Salem really needs in the progress and growth of the industrial lines of education is one large central building where general shops on different lines could

be combined in one plant devoted to the mechanical training work. Mr. Pulp has a younger group of boys, using the same kind of work benches and the same tool equipment and machinery. Boys especially interested in electric appliances are taught this elementary science in a special class. For instance they learn how to build magnets and the principle that enters into the construction of motors; how to build a galvanometer, how to detect a current or build a bread toaster; how to use electricity in sheet metal working and an electrical soldering laboratory.

In these machine shops where the students do this advanced work, similar work is also done for garages and other shops. Machinery is manufactured here for sandpapering desks and furniture and machines are built for tamping the crops of the onion growers for this section, which is a big industry and at a saving of \$200 per machine below the price from the eastern factories.

Very Good Showings The machine shops in the Salem public schools in ten years have earned \$5000 in cash and paid for themselves and all their machinery. These boys in their first year work are practically making 20 different articles like paper knives and other articles out of sheet steel, and each student has a complete set of working tools made by himself.

Can Make Anything I asked one of the boys if Professor Bergman could make these tools, he said: "Why yes, he can do anything; he can make a four-wheel brake locomotive!" The prof. grinned one of his modest grins.

The metal work plant has turned out manufactured products sold in the trade and if enlarged to capacity of having 200 of these young Vulcans a year ready to walk in and take positions in any modern machine shop, they could be ready to go to manufacturing articles made in eastern factories and regularly sold to wholesalers and produce revenues for the school district on a large scale, even if part of what they earned was paid to the boys while they are getting their education.

This class in the metal working shops that I have been talking about is made up entirely of freshmen in the tenth week of making machinists out of themselves. Among the tools one of the boys showed me that he had made for himself to work with was a planer, an adjustable tap wrench, a pair of inside machinist calipers, a parallel strip—some kind of a shining tool used only in a machine shop, and fit to be used in

the higher grades of work quicker and more accurately. Could Save More Yet The tools are all standard, the training is in the regular lines employed in the practice of the best shops and they have an instructor who is a machine shop man with experience gained in the best large shops.

Speaking of the wood working department making tables and repairing furniture, the expense of renovating and repairing the regular seats for the students in all the public schools is one of the biggest items in the district. In the past year 1300 benches have been renovated and the broken castings welded by the students in the metal working shops at Salem high, the boys doing it paid wages and saving money for the district.

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work shops half an hour before school time and beg to be permitted to work over time. No transient officer required to keep these chaps on the job. In conclusion I want to quote P. T. Barnum who said: "A busy boy will grow up to be a good man." COL. E. HOFER, Salem, Or., Dec. 3, 1927.

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