

The main business of all good people is to preserve and increase the prosperity of the human race; that is the business also of every school teacher. Prosperity cannot exist without wealth-- material,, intellectual,, and spiritual wealth,, and wealth in turn is derived from all the available and usable resources of the community. Civilization itself is only a product of wealth,, in this larger sense. The schoolmasters concern is to help produce wealth.

Resources that Constitute the Earth's Wealth

There are two great resources that produce wealth and determine prosperity and make a civilization; first,, the natural resources of the soil, water, mountains and the air;; and the animate kingdom of plants and beasts, which derive their support from the earth. Second, the inborn capacity of man, his natural, limitless fitness for development to use the physical resources of the universe for the good of humanity.

How Resources Become Active

These two great classes of resources, upon which our prosperity depends, are brought into life only when intelligent man begins deliberately to enlarge his own capacity and develop his own understanding,, by instituting a process of discovering, using and teaching truth for man's needs and wants. Unless this be done, the physical or human resources are valueless; they are as if dead.. In short, our wealth and prosperity, our boasted civilization flow from discovered truth made alive by use.. This is education.

For example; in the physics laboratory of the University of Copenhagen, nearly 100 years ago, Prof. Oerstedt held, over the needle of a compass, a wire through which flowed a current of electricity. The needle swerved quickly to one side, and was held out of its normal position. This observation, persistently followed, gave us the electric dynamo and the power and light that we now derive from the electric current, and the whole electrical age. The dye-stuff known as indigo, perhaps the oldest and the best known in the world, was for generations derived from plant substances at great cost. About 75 years ago the chemist, Von Bayer, by the study of the substances found in coal tar, succeeded in making indigo artificially, and a new era in the manufacture and use of dyes was inaugurated.

Brigham Young and his company of pioneers entered a wilderness, forsaken even by the trappers, who had cleared the mink and the beaver from the Western streams. The scattered bands of Indians were of such low degree that memory does not care to dwell upon them. Nevertheless, within the boundaries of our State, lay at that time, as today, vast deposits of coal and iron, gold and silver, copper and zinc, salt and gypsum, and the thousand other things with which nature has endowed this State. The waters of the rivers flowed no less freely than they do today, and the land possessed the same intrinsic fertility. It required intelligent man, with a passion for searching out truth to be used for his good, to conquer Utah and to make her a notable part of the civilized world.

Meaning of Education

Discover the resources of earth and man, and use them, and

from chaos is won a civilization;; discover, and teach truth, and the institution known as education is established to be the first handmaid of civilization. Education has no higher ideal than serve in establishing man's greatest happiness. Education, in this large sense conditions the future success of the world.. Should man, even for a few years, cease to search out and teach the truth of things material, intellectual, and spiritual, he would begin his return to the wilderness. Let man continue forever to discover truth and to use it, and the human race will surely move into the day of the superman.. Education,, in or out of schools,, is the prime condition of human advancement. The degree of any civilization may be measured by its support of correct education..

Money Value of Education

While the highest value of education lies in the subtle fields of the mind and spirit, yet education has distinct money value to a people.. Many illustrations to this effect might be quoted. Thousands of acres of arable Utah land, yielded for many years small crops, and other thousands of acres were untouched, until new truth was applied to Utah lands. The crop yields were then doubled or trebled;; new acres brought under cultivation;; the irrigation waters were made to serve two or three times the old acreage simply because men who had set out to master fundamental truths concerning natural resources had gained a new control over agricultural conditions.. The money value that has resulted for the education of the people concerning the agricultural possibilities of the State can be

measured only by millions of dollars. Within easy memory, only ores containing 10 to 15 per cent of copper could be mined and smelted profitably. Anything containing less was thrown on the dump. But, man, searching for truth, acquired mastery over copper and the substances associated with it, until today, across this valley, a wonder of the world has been constructed, which extracts with great material profit, copper from ore containing not to exceed two per cent of the metal. The wealth that thus has been added to the State proves education a most profitable business..

Moreover, by the general enlightenment of the whole people, exceptional talents are discovered which devise the great steps of human progress. Education in Utah, as in every other State, has paid for itself over and over again. It is a State necessity--to be fostered and encouraged and supported to the full. Education is not the schoolmaster's business, it is the business of the entire people.

Effect of Educational Leadership

If, as said by statisticians, Utah leads many other states in educational endeavor, it simply means that Utah, will in time lead many of the States in human achievements of material, intellectual, and spiritual character, for the effect follows the cause, as day follows day.

Causes of Increased Cost of Education

Just now the State stands before the conception and adoption of State programs. It will be found that all educational

activities cost more than ever before.. The people, education-loving and generous are not disposed to yield up an educational advantage,, but they ask for the real cause of the increased cost of education.. Let me enumerate the five great causes which today affect every school from kindergarten to university, especially higher education.

First. The appreciation of the value of education in the making of man and his civilization, has grown to such degree that the increased attendance at all institutions of learning is far beyond the largest estimates upon which school revenues are based..

Second. Students no longer take subjects, most common a few years ago, and of a relatively inexpensive character. High school graduates come to the university with their future careers selected,, and they demand from the Freshman to the Senior year, instruction in technical subjects leading to their life vocations.. The necessary work in laboratories and shops adds tremendously to the cost of instruction.

Third. During these abnormal days, the cost of everything has increased tremendously. Teachers must be paid better to live decently,, and supplies and equipment, maintenance of buildings and grounds, fuel and janitorial service,, and all such things, cost more than in the past.

Fourth,, We have produced in this country a generation of fathers and mothers, like yourselves, who have tasted of the joys and benefits of education, and who are determined that their children shall share in these joys, and who declare that they, themselves,, (engaged in the office or household) shall also have some advantage by way of assistance from the schools in keeping up with the progress of the world and in gaining new informationn

concerning their life's work.. Demands for instruction by extension are increasing so rapidly that it is difficult indeed for the layman to understand the increased financial pressure which it brings to educational institutions.

Fifth. It has been clearly shown only when the possibilities of the earth are searched out by intelligent man shall we secure for the human race the comforts that it desires. Educational institutions are expected to increase the sum of human knowledge by sincere and continuous scientific research. This also carries with it great increasing financial obligations. Utah is greatly in need of scientific studies of its possibilities. It may be noted that all of these five great groups of causes of the increased cost of education are results of the demands of the people,, or of economic conditions wholly beyond the control of the schoolmaster. It is for the people to decide what shall be done with the schools.. If they are to be maintained they must be supported so that they can do first class work. Our children are entitled to that.

The University of Utah

May I say that the conditions of the University of Utah are typical of the present conditions of most institutions of higher learning.. During the last half decade, the college attendance has increased nearly 80% (from about 1000 to nearly 1800); the number of extension students has quadrupled; (from about 650 to about 2500); the attendance in the Summer School and other divisions has increased,, and all other activities have expanded greatly.

Meanwhile the income has barely kept pace with the increase in college students. In other words,, the per capita cost of in-

struction at the University of Utah is practically the same or less than it was five years ago, under much easier conditions. This has placed restrictions upon the university which are wholly incompatible with good teaching and research. The requests made of the coming legislature are modest, but will determine the future of the Institution..

The University has wonderful possibilities of service to the State; its prosperity will always be a safe indication of the sound conditions of the State of Utah. To build this great institution we shall need good will and assistance, from the coming legislature, and from sessions of the future..

I have no fear of the future of the University of Utah if the people understand the work that it is doing. The needs that must be met for the welfare of the Institution, I am sure the people will gladly meet.. Meanwhile, friends must know the condition and needs of the University and speak the words of explanation to all who are uninformed,