sity. There the sacred flame of learning is fed from many sides by many hands.

VALUE OF SCIENCE.

It is sometime, said that pursuit of science renders a man deaf to the appeals of practical life. That it tends to withdraw him from the everyday interests of the people. That 1 do not believe of any science. Certainly not of biology and the medical sciences. Why, from their very outset these subjects draw the mind toward study of an organization the most complex and the most perfect it can examine. The ancient simile that our old school classic, Livy, drew between the human body and the body politic the state, has not lost, but won significance as the centuries have run. The achievement of the microscope has been the discovery that living things, whether plant or animal-all living things of more than minutest size—are commonwealths of individually living units. These cells, as they are called, are living stones that build the house In that house each stone is a self-centred individually of life. living microcosm individually born, breathing for itself, feeding itself, consuming its own substance in its living, and capable of and destined for an individual death. Each cell lives by exchanging material with the world surrounding it. In other words, its bulk depends on its surface. Hence, surface increasing as the square, and volume, as the cube, cell-size, is circumscribed by tiny limits-microscopic limits. Had the dependence been greater than it is, and the average size of the cell less, and too small for resolution and discovery by the microscopes of seventy yea.s ago, it is hard to imagine where biology would stand to-day. For two generations every biologist has been accustomed to think in terms of the cell-theory. Every shred of the body he knows as an intricate interlacement, embodying co-operation and mutual support of associate thousands of individually existent cells. Division of labor has gone on, and the it differentiation of function; while this group of cells combines with its own inner life some special function subservient to the needs of the great commonwealth, as a whole. Another group is specialized for another duty again subservient to the general needs. Each organism, however complex, each one of ourselves here, is built up of living myriads of cells. Each such organism consisted at outset but of a single cell. and from that in his life's growth have arisen the countless myriads composing him to-day. The blood relationship is close between all the cells of each one individual body. The cells of our nerves, or our muscles of our time-hardened bones are all blood relations through one common ancestor. Yet so far has specialization of these unit lives gone on, yet so far does function