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University Education for an Age of Technology

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Education is, as the economists say, both an individual and social good. As we learn, we find the world a more interesting place, or at least we satisfy some of our curiosity about it. We come to be able to do more things, and perhaps even eato more But because we know more we are able to create wealth. mon⊛∨. and the whole of society benefits. at least to the extent that it So education is both the wealth that we create. $\approx |\gamma | \alpha | \alpha | \alpha | \alpha | \alpha$ an investment by society in those of its members who can make wealth in the future, and a form of consumption by which we use up some of the wealth we have already created. To add to the future, learning both work and play. It is work because it creates new i s knowledge, play because it 😁 done for its own sake and its rewards are intrinsic. No wonder people are confused, and that political debate about education mirrors their confusion.

extends even to the title OŤ this article, This confusion an Age of Education for ~ Technolog "University There has never been an age that was not technological, in the sense of its economy and society being based on the technology available. On the other worrich about hand, there may never have been an age as obsected by technology as this one, albeit that the suspector is ambivalent. O<u>n the one hand</u> We fear a technology that threatens the survival of the biosphere or the instant destruction of our civilization. We are suspicious technology that destroys social order and reduces people ೧್ ë) to

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ciphers. Yet we also look to technology to solve our ecological problems and provide us with a constantly rising material standard of living. So we look for a system of education which will show us how to control technology at the same time as it produces the technologists who will increase our wealth. And because we think we haven t got enough wealth already, we refuse to give the system enough money to carry out either of these tasks.

dispelling the confusion it we look more We may find some way of elea carefuly at what we mean by the creation of wealth. In one sense. wealth can never be created. The universe is finite, and the best we can do is shift around some of its matter and energy so that they serve our purposes a little better. We don't create wealth, but we do add value to what is already there. But by adding value we also take it away. This may merely be the inevitable effect of things with It may be a consequence of the fact that one kind of entropy. are value, such as that of dressed timber, **t**e incompatible with others and s , such as s untouched rain fores. Or it may be that the loss is actually produced by the process of adding value, as when the cultivation of crops leads directly to soil degradation. These losses are rarely allowed for in economic calculations, which consequently distort the whole argument about our economic future. them recognized as / different aspects of the same Rather than economics Sec we oppos 🖍 to ecology and development equation. as a matter of balancing their competing demands.

These consequences flow from an education which is largely a matter of increased specialisation and fragmentation of the individual. Eather than leading to wisdom, it confers expertise, gives ω and thus the chance of turning public knowledge to private profit. In the name of relevance and vocational a pication, courses are

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tailored to the immediate perceived needs of industry rather than the integration of the individual. The constant increase tο In knowledge seems the process inevitable. to make and the differential rewards for particular skills. often unrelated to any concept of value, distort the kind of knowledge which is sought. mediaeval moralists taught that the use of the philosophers While stone to make money was a perversion of humanity, contemporary politicians see the production of such stones as the only valid use for learning.

fet, as Mr Dawkins has found, it is easier to see the problem than to find the answers. These may come more easily if we go back issue of the individual pursuit of wisdom. Wisdom 七〇 the 1 55 unfashionable, because it has always been considered as the product The expansion of knowledge makes this and mΨ complete knowlege. in structuralists ets suggest that it imnpossible ideal today, and the always been a partial concept, mere product of 🗡 particular has societies. But, for all that, knowledge is indivisible. As reality is indivisible. Although no individual can grasp more than a tiny only part of it, we can whenstand this part by recognizing 1 5 relationship to + the larger whole. Such recognition may not only make us less arrogant about our particular specialisations, but nav encourage us to talk with people in other fields. This in turn will help us use knowledge to assist in the integration of our OWE personalities, and at the same time contribute to the production of a social wisdom which we can never obtain individually.

Such a return to an ideal of universality may seem remote from the needs of postgraduate students, condemned to the treadmill of the thesis which requires them to show they know everything about practically nothing. Yet Blake reminds us that wisdom is to see

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🚗 Fatrick White's Stan Parker found heaven in a grain of sand. in a gobbet of spittle. We need not so much a change 1 57 God content, or even method, or university study, as in our attitude to The recent prize-winning history of Cambden showed how af it. small local history, just the kind of useful subject for a thesis. can illuminate both the process of colonisation and the whole issue of cultural change. The study of a chemical process should have meaning not only to other chemists, 🗢 to industrialists who hope to profit from it a workers who hope to use it to clean the environment. The researcher should also be able to communicate his results to non-scientists as an example of the unchanging laws of nature which underpin everything we do. The issue is not less specialisation, but more communication, which obliges us not only to inform others but, in the process, to understand ourselves more deeply.

Education which we conceive of as a means to the end of wealth inevitably leads to personal and social fragmentation. If we understand wealth as value, however, we are forced to consider education as first a value in itself, and thus as one means by which we bring value to the world. This value may be in the form of material production, but it may also take the form of the better understanding of ourselves and the world, the which the arts and sciences contribute equality. Where we talk in terms of material production, we need to think not in terms of profit and loss, but of total value. As we learn to think of totalitites, so we will help to realize them.

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