THE MIND OF ALBERT EINSTEIN

OR the last 20 years of his life, Albert Einstein, the mathematician and physicist whose work provided the theoretical background for the atom bomb, could steal newspaper space even from filmstars, and this as the result of scientific writings so abstruse, so difficult, that the most urbane of newspaper popularisers were uneasy in their search for illustrative metaphors. The fact that as a boy Einstein was not good at classwork, that indeed he was so slow in learning to speak that his parents feared him subnormal, has been used to encourage more than one class straggler. His complete disregard for money, his fiddle playing and his yachting have all become popular legend. Perhaps not so well known is the fact that most of his Special Theory of Relativity was worked out when he held a minor position in the Swiss Patents' Office, where it is said, he had to thrust out of sight formulae-covered scraps of paper when the supervisor approached.

Einstein's scientific writings were profound, novel and in their own sphere sensational. But his other writings, on world government, on social justice, on his people the Tews, were simple, sincere—and frequently dismissed as the work of an other-worldly genius who should have kept to his own sphere. We let some extracts from his writings

"SCIENCE without religion is lame;

religion without science is blind."—Address given at Princeton

Theological Seminary (1939).

speak for themselves.

Of Himself

the outside, the hard from within, part I do the thing which my own good, teachers of religion must have nature drives me to do. It is embar- the stature to give sup a personal God;

rassing to earn so much tespect and love for it. Arrows of hate have been shot at me, too; but they never hit me, because some-

CRAFT

Α,

S

M

SHRUB

WEALTHY

how they belong to another world, with will have to avail themselves of these to youth but delicious in the years of maturity.

On Religion and Philosophy

"NOBODY, certainly, will deny that the idea of the existence of an omnipotent, just, and omni-beneficent personal God is able to accord man

(Solution to No. 744)

С

LIEU CHIVALRY

PRAISE PRISON

V

HAMPERED BOAT

SERVILE

T O C G

E E E

ETK

2

RHUBARB

EC

CHIDE

solace, help and guidance; also, by THE bitter and the sweet come from virtue of its simplicity, it is accessible to the most under-developed mind . . from one's own efforts. For the most but in their struggle for the ethical

that is, give up that source of fear and hope which in the past placed such hand of the priests. In their labour they

which I have no connection whatsoever. forces which are capable of cultivating I live in that solitude that is painful the Good, the True, and the Beautiful in humanity itself. This is, to be sure, a more difficult but an incomparably more worthy task."—Science, Philosophy and Religion (1941).

On Ethical Values

SOCIALISM is directed towards a social-ethical end. Science, however, cannot create ends and, even less, install

them in human beings; science at most can supply the means by which to attain certain ends. . . For these reasons we should be on our guard not to overestimate science and scientific methods when it is a question of human problems."-Why Socialism? (1949).

On Politics and Economics

THE economic anarchy of capitalistic society as it exists today is, in my opinion, the real source of the evil (of our time). We see before us a huge community of producers, the members of which are unceasingly striving to deprive each other of the fruits of their collective labour. . . I am convinced there is only one way to eliminate these grave evils, namely, through the establishment of a socialist economy. . Nevertheless, it is necessary to remember that a planned economy is not yet socialism. A planned economy as such may be accompanied by the complete

enslavement of the individual. The achievement of socialism requires the solution of extremely difficult sociopolitical problems; how is it possible, in view of the far-reaching centralisation of political and economic power, to prevent bureaucracy from becoming allpowerful and overweening? How can the rights of the individual be protected and therewith a democratic counter-weight to the power of democracy be assured?"-Why Socialism? (1049)

On the Atom Bomb

"'['ODAY, the physicists who participated in forging the most formidable and dangerous weapon of all time are harassed by a feeling of responsibility, not to say guilt. We delivered this weapon into the hands of the American and British people as trustees for the whole of mankind, as fighters for peace and liberty. But so far we fail to see any guarantee of peace, we do not see any guarantee of the freedoms that

DO not believe that a great era of atomic science is to be assured by organising science in the way large corporations are organised. One can organise to apply a discovery already made, but not to make one. Only a free individual can make a discovery. . .' -"Atomic Wat or Peace" (1945).

were promised the nations in the Atlantic Charter."-Address at Nobel dinner (1945).

On International Affairs

"THE Russians have made it clear that they will do everything within their power to prevent a supra-national régime from coming into existence. They not only reject it in the range of atomic energy, they reject it sharply on principle and thus have spurned in advance any overture to join a limited world government. . .

"But one must admit that the United States has made ample contribution (to Russian fears), Indeed, this country has conducted its Russian policy as though it were convinced that fear is the greatest of all diplomatic instruments."---From Atlantic Monthly (1947).

On Intellectual Freedom

"WHAT ought the minority of interlectuals do against this evil (that of suppression of intellectual freedom)? Frankly, I can see only the revolutionary way of non-co-operation in the sense of Gandhi. Every intellectual who is called before one of the committees ought to refuse to testify, i.e., he must be prepared for jail and economic ruin, in short, for the sacrifice of his personal welfare in the interests of the cultural welfare of his country. . . If enough people are ready to take this grave step they will be successful. If not, then the intellectuals of this country deserve nothing better than slavery which is intended for them."—Letter to William Frauenglass, school teacher, who refused to testify before a U.S. Senate Committee concerning his alleged Communist connections (1953).

WHEN asked in an interview last year what changes he would make if he were to live his life over again, Einstein remarked that next time he would be a street cleaner or a plumber.

THE LISTENER $^{\prime\prime}$ CROSSWORD

. . neither having the -Christians nor the gait of Christian, pagan, nor man. ." speech to the Players). (Hamlet's

Dear Pa! He does make a show.

24. "He is - and rejected of men; a man of sorrows, and acquainted with grief" (Isaiah, ch. 53).

of 11. The end of a clause.

- You don't have to wear it while drinking it.
- 13. Many cars have them, but they usually use trucks.

14. Flat, indeed? Indeed, yes!

745 (Constructed by RWH.)

18. Raced for a tree. 16. Betoken. 19. Found in paraffin also.

Clues Down 1 Pshaw, sir! The

navy must have them! 2. Upset him, and he'll

leave no traces-unless, of course, his ghost comes back to haunt the family mansion.

3. "Men touch them, and change in a trice

The lilies and of virtue For the raptures and roses of vice

(Swinburne). 4. He wrote the words and Sullivan wrote the music.

5. This country largely of a sists health resort.

Sharp, with the result in the middle. perhaps?

STRAVED Clues Across

Ε

1. Feeble fish, but not necessarily a fish at all.

7. Here we see the little devil take part in a collision. 8. Renounce one's opinion of the drink

of the gods? This liqueur could make sailors thin.

Suppress (4, 2).

11. You take this vessel twice during your return journey. 15. Topers in a cart apparently believe

in putting it off until tomorrow. 17. 11 down, in order to entreat.

20. It may all be sung, but it is mostly spoken.

21. Tui's ode is very dull.