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Physics and Politics: Thoughts on the Application of the Principles of "Natural Selection" and "Inheritance" to Polital Society, 1916

## THE USE OF CONFLICT

The difference between progression and stationary inaction,' says one of our greatest living writers, 'is one of the great secrets which science has yet to penetrate.' I am sure I do not pretend that I can completely penetrate it; but it undoubtedly seems to me that the problem is on the verge of solution, and that scientific successes in kindred fields by analogy suggest some principles which wholly remove many of its difficulties, and indicate the sort of way in which those which remain may hereafter be removed too.

But what is the problem? Common English, I might perhaps say common civilised thought, ignores it. Our habitual instructors, our ordinary conversation, our inevitable and ineradicable prejudices tend to make us think that 'Progress' is the normal fact in human society, the fact which we should expect to see, the fact which we should be surprised if we did not see. But history refutes this. The ancients had no conception of progress; they did not so much as reject the idea; they did not even entertain the idea. Oriental nations are just the same now. Since history began they have always been what they are. Savages, again, do not improve; they hardly seem to have the basis on which to build, much less the material to put up anything worth having. Only a few nations, and those of European origin, advance; and yet these think—seem irresistibly compelled to think—such advance to be inevitable, natural, and eternal. Why then is this great contrast?

Before we can answer, we must investigate more accurately. No doubt history shows that most na-

tions are stationary now; but it affords reason to think that all nations once advanced. Their progress was arrested at various points; but nowhere, probably not even in the hill tribes of India, not even in the Andaman Islanders, not even in the savages of Terra del Fuego, do we find men who have not got some way. They have made their little progress in a hundred different ways; they have framed with infinite assiduity a hundred curious habits; they have, so to say, screwed themselves into the uncomfortable corners of a complex life, which is odd and dreary, but yet is possible. And the corners are never the same in any two parts of the world. Our record begins with a thousand unchanging edifices, but it shows traces of previous building. In historic times there has been little progress; in prehistoric times there must have been much.

In solving, or trying to solve, the question, we must take notice of this remarkable difference, and explain it, too, or else we may be sure our principles are utterly incomplete, and perhaps altogether unsound. But what then is that solution, or what are the principles which tend towards it? Three laws, or approximate laws, may, I think, be laid down, with only one of which I can deal in this paper, but all three of which it will be best to state, that it may be seen what I am aiming at.

First. In every particular state of the world, those nations which are strongest tend to prevail over the others; and in certain marked peculiarities the strongest tend to be the best.

Secondly. Within every particular nation the type or types of character then and there most attractive tend to prevail; and the most attractive, though with exceptions, is what we call the best character.

Thirdly. Neither of these competitions is in most historic conditions intensified by extrinsic forces,

From *Physics and Politics*, New York: D. Appleton and Company, 1916.

but in some conditions, such as those now prevailing in the most influential part of the world, both are so intensified.

These are the sort of doctrines with which, under the name of 'natural selection' in physical science, we have become familiar; and as every great scientific conception tends to advance its boundaries and to be of use in solving problems not thought of when it was started, so here, what was put forward for mere animal history may, with a change of form, but an identical essence, be applied to human history.

At first some objection was raised to the principle of 'natural selection' in physical science upon religious grounds; it was to be expected that so active an idea and so large a shifting of thought would seem to imperil much which men valued. But in this, as in other cases, the objection is, I think, passing away; the new principle is more and more seen to be fatal to mere outworks of religion, not to religion itself. At all events, to the sort of application here made of it, which only amounts to searching out and following up an analogy suggested by it, there is plainly no objection. Everyone now admits that human history is guided by certain laws, and all that is here aimed at is to indicate, in a more or less distinct way, an infinitesimally small portion of such laws.

The discussion of these three principles cannot be kept quite apart except by pedantry; but it is almost exclusively with the first—that of the competition between nation and nation, or tribe and tribe (for I must use these words in their largest sense, and so as to include every cohering aggregate of human beings)—that I can deal now; and even as to that I can but set down a few principal considerations.

The progress of the military art is the most conspicuous, I was about to say the most showy, fact in human history. Ancient civilisation may be compared with modern in many respects, and plausible arguments constructed to show that it is better; but you cannot compare the two in military power. Napoleon could indisputably have conquered Alexander; our Indian army would not think much of the Retreat of the Ten Thousand. And I suppose the improvement has been continuous: I have not the slightest pretence to 'special knowledge; but, looking at the mere surface of the facts, it seems likely that the aggregate battle array, so to say, of mankind, the fighting force of the human race, has constantly and invariably grown. It is true that the ancient civilisation long resisted the 'barbarians,' and was then destroyed by the barbarians. But the barbarians had improved. 'By degrees,' says a most accomplished writer,1 'barbarian mercenaries came to form the largest, or at least the most effective, part of the Roman armies. The body-guard of Augustus had been so composed; the prætonans were generally selected from the bravest frontier troops, most of them Germans.' 'Thus,' he contain ues, 'in many ways was the old antagonism broken down, Romans admitting barbarians to rank and or fice; barbarians catching something of the manners and culture of their neighbours. And thus when the final movement came, the Teutonic tribes slowly established themselves through the provinces, knowing something of the system to which they came, and not unwilling to be considered in members.' Taking friend and foe together, it may be doubted whether the fighting capacity of the two armies was not as great at last, when the Empire fell as ever it was in the long period while the Empire prevailed. During the Middle Ages the combining power of men often failed; in a divided time cannot collect as many soldiers as in a concentral time. But this difficulty is political, not military if you added up the many little hosts of any century of separation, they would perhaps be found equal or greater than the single host, or the fewer hosts, of previous centuries which were more united. Taken as a whole, and allowing for possible exceptions the aggregate fighting power of mankind has grown immensely, and has been growing continuously since we knew anything about it.

Again, this force has tended to concentrate itself more and more in certain groups which we call 'civilised nations.' The literati of the last senting were for ever in fear of a new conquest of the barbarians, but only because their imagination was overshadowed and frightened by the old conquests A very little consideration would have shown them that, since the monopoly of military inventions by cultivated states, real and effective military power tends to confine itself to those states. The barburians are no longer so much as vanquished competitors; they have ceased to compete at all.

The military vices, too, of civilisation seem to decline just as its military strength augments. Sonie how or other civilisation does not make men effent nate or unwarlike now as it once did. There is an improvement in our fibre—moral, if not physical. In ancient times city people could not be got to fightseemingly could not fight; they lost their mental courage, perhaps their bodily nerve. But now-a-days in all countries the great cities could pour out multitudes wanting nothing but practice to make good soldiers, and abounding in bravery and vigour. This was so in America; it was so in Prussia; and it would be so in England too. The breed of ancient times was impaired for war by trade and luxury, but the modern breed is not so impaired.

<sup>&</sup>lt;sup>1</sup>Mr. Bryce.

A curious fact indicates the same thing probably, not certainly. Savages waste away before modern wilisation; they seem to have held their ground petore the ancient. There is no lament in any classical writer for the barbarians. The New Zealanders say that the land will depart from their children; the Australians are vanishing; the Tasmanians have yanished. If anything like this had happened in antiquity, the classical moralists would have been sure to muse over it; for it is just the large solemn kind of fact that suited them. On the contrary, in Gaul, in Spain, in Sicily—everywhere that we know of—the barbarian endured the contact of the Roman, and the Roman allied himself to the barbarian. Modern science explains the wasting away of savage men; it says that we have diseases which we can bear, though they cannot, and that they die away before them as our fatted and protected cattle died out before the rinderpest, which is innocuous, in comparison, to the hardy cattle of the Steppes. Savages in the first year of the Christian era were pretty much what they were in the 1800th; and if they stood the contact of ancient civilised men, and cannot stand ours, it follows that our race is presumably tougher than the ancient; for we have to bear, and do bear, the seeds of greater diseases than those the ancients carried with them. We may use, perhaps, the unvarying savage as a metre to gauge the vigour of the constitutions to whose contact he is exposed.

Particular consequences may be dubious, but as to the main fact there is no doubt: the military strength of man has been growing from the earliest time known to our history, straight on till now. And we must not look at times known by written records only; we must travel back to older ages, known to us only by what lawyers call *real* evidence—the evidence of things. Before history began, there was at least as much progress in the military art as there has been since. The Roman legionaries or Homeric Greeks were about as superior to the men of the shell mounds and the flint implements as we are su-

perior to them. There has been a constant acquisition of military strength by man since we know anything of him, either by the documents he has composed or the indications he has left.

The cause of this military growth is very plain. The strongest nation has always been conquering the weaker; sometimes even subduing it, but always prevailing over it. Every intellectual gain, so to speak, that a nation possessed was in the earliest times made use of—was invested and taken out—in war; all else perished. Each nation tried constantly to be the stronger, and so made or copied the best weapons; by conscious and unconscious imitation each nation formed a type of character suitable to war and conquest. Conquest improved mankind by the intermixture of strengths; the armed truce, which was then called peace, improved them by the competition of training and the consequent creation of new power. Since the long-headed men first drove the short-headed men out of the best land in Europe, all European history has been the history of the superposition of the more military races over the less military—of the efforts, sometimes successful, sometimes unsuccessful, of each race to get more military; and so the art of war has constantly improved.

But why is one nation stronger than another? In the answer to that, I believe, lies the key to the principal progress of early civilisation, and to some of the progress of all civilisation. The answer is that there are very many advantages—some small and some great—every one of which tends to make the nation which has it superior to the nation which has it not; that many of these advantages can be imparted to subjugated races, or imitated by competing races; and that, though some of these advantages may be perishable or inimitable, yet, on the whole, the energy of civilisation grows by the coalescence of strengths and by the competition of strengths.