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own interest with theirs. This is the problem of the age. To put the ultimate case: a man's children are no necessary to him that he actually creates them, yet for them he has to struggle harder and more painfully than for himself. All his social relations involve the same difficulty in greater or less degree. It may be unfeeling by those whose means are proportioned to their liabilities, but I believe that a large majority are in a very different position. Thousands in Europe, and particularly in England, are now daily overcome in the struggle. The solution of this difficulty is in the anticipation of artificial selection that in its excess, and is, therefore, but indirectly connected with my subject. But the remedy happens to be the same as one which I propose for the other difficulty—namely, the general spread of knowledge—particularly of physiology, and the complete abolition of monopolies and restrictions upon its practical study.

question, whether modern civilisation exhibits signs of stability as compared with more ancient ones which proved evanescent? The condition of greatest prosperity of an organism, is that in which it exhibits the most thorough adaptability by natural selection to its surrounding conditions. Those conditions are ever changing, and immobility or intractability in accommodating itself to those changes, means that a point in its history has arrived at which natural selection is no longer competent to modify its so as to bring it into appropriate relations with its natural conditions; and that it is therefore on the road to extinction. It may be as well for me to repeat, here that I think that civilisation—being artificial—requires artificial selection to perpetuate it, and that the cause of the failure of various civilisations was the neglect of man to apply to his own case what he found to succeed so well in that of animals. We can only account in this way for the evident lapses into semi-savage conditions, from those of apparently flourishing civilisation, that have constantly taken place in various parts of the world in past times. Now one of the most striking features in modern civilisation is its apparent vitality. Inferior races vanish before the wealth accumulating, and machinery employing European, as the light of the stars is extinguished by that of the sun. It presents no immediate signs of approaching extinction. At the same time its mobility seems scarcely equal to the demands of its rapidly changing conditions. It seems to owe its vigor mainly to its unprecedented employment of material, tools, and machinery by which its working power is so enormously multiplied; to the fact that the invention of printing has secured the means of establishing permanently every achievement of man, whether of discovery or invention; and to the moral general spread of education, which has brought those means of permanent record within the reach of every discoverer and inventor. Nevertheless the refractory constituents of our society not only impede the general march of civilisation, but they themselves live very hard, or die very hard, in the struggle.

The persistence of type is too strong for the tendency to variation. In artificial selection, which we well know requires the conduct of an expert, man has proved that he can materially assist nature by availing himself of the tendency to variation, which is his source of profit. In the production of useful varieties of plants and animals, he has reached in many instances the natural boundary to immediate variation—hybridity; but has ascertained that, as in his own personal growth he absolutely represents infinitely greater changes of ancestral structure, which it probably took millions of millions of years to accomplish, so it is possible for him to dispose with the necessary element of time, or to lead the way for variation to surmount upon the limit imposed by inheritance and the persistence of type. In his social and moral development however, he has as yet not with such abrupt check to variation. In fact civilisation has as yet had no persistent type. Its late reformation has not extended over more than four or five centuries; a period which—judging by previous developments, is of itself wholly inadequate to secure its permanent type. This being the case, our civilisation cannot be regarded as securely and permanently established, and it is evidently desirable to learn the causes of former collapses of civilisation, to enable us to avoid similar catastrophes in the future.

There have come to the conclusion that the evanescence of former civilisations was due to two main inherent causes, irrespective of foreign aggression, which I think was of less importance. The principal one I think was the monopoly of knowledge, relics of which still exist among us. The other I think was the neglect to apply artificial selection to the human family, the natural and persistent tendency being to select the savage varieties only. We know that the small numbers in Egypt, Chaldea, &c. for instance, who actually possessed knowledge—guarded as jealously as they cultivated it vigorously. They not only kept the masses ignorant, but taught them not what was true, but only such things as they thought would make them docile, and subservient to their masters. They feared to trust the people with knowledge. It was, they thought, too precious, and so they hid it themselves. The monopolists were then, and always must be a comparatively small number, and when any circumstances led the ignorant masses to try and feel their physical strength—they used it, knowing no better; knowing only that they had been vilely deceived and the victims of tyranny, they were unlikely to show mercy to those who had withheld from them the knowledge of good and evil. Is not the prohibition of that knowledge in Eden an apt illustration of my point? Was not the story evidently written to deter simpletons from aspiring to break the monopoly? Does not the serpent typify a cunning rascal, from the monopolists' ranks? Is not the story of Prometheus a humanised edition of the same allegory? Are there not actually to-day advocates for prohibitions and restrictions upon knowledge? We know that allegory and parable were the staple form of popular instruction. When it was desired to inculcate, in the style of Bishop's fables, the changes of the seasons, the priests did so by teaching mythical stories of deified animals or heroes, who had been translated into constellations. Hence, the twelve signs of the Zodiac, into which it was found convenient to divide the annual revolution of the heavens, represent the twelve labors of Hercules, and those of Samson, the sons of Jacob, Tribes of Israel, &c. The adventures of Isis and Osiris, of Minerva, Bacchus, Adonis, Alys, &c., who were all born with the New Year, and died and rose again at the vernal equinox, are relics of the devices by which the pernicious monopoly of knowledge was maintained by the mistaken protectors of it to their own destruction. The people have been taught these fables to guide them to seed time and harvest, but still more

to intimidate them with oracles and miracles, sometimes rose in their numerical might and annihilated their oppressors. That might, however, was merely physical, and could not free them from the tyranny of the superstition which enthralled them, and which they therefore only perpetuated; which also is now far from extinct. I am satisfied that similar circumstances have had much, if not everything, to do with every distinction of civilisation; and no more remarkable instance of it than the great French revolution has ever occurred. The antagonism of classes which grew till it culminated in that revolution, and which is a salient feature of the system, is slowly increasing day by day in England, and most acutely pointing a revolution there, unless means be taken to give the working class the knowledge which they want. From the destruction, with the civilisation, of its records, history cannot furnish us with particulars of all such revolutions, so that its silence is no disproof, and the esoteric system is not yet extinct. The use of dead languages till recently, the superfluous use of technical terms, priestly systems, freemasonry, are living relics of the evil system. The spread of education, and still more the popularisation of science, independent thinking, and unrestricted discussion, are the great antidotes to the evil of the monopoly of knowledge.

The neglect to apply artificial selection to the human family I have named another and the most important cause of the vicissitudes of civilisation. Natural selection makes fine savages, but therefore, by debasing the type, tends to retard civilisation. Man's civilisation is essentially his own work; and unless he practice selection, the modifications of his structure, favorable to the development of civilisation can never be effected. Plato and Aristotle were fully alive to the necessity of such selection, and wisely provided for its enforcement in their "Republic" and "Politics" respectively. The reasons for the failure in practice of Plato's "Republic" are not precisely known, but in any case it was not a failure of artificial selection in practice, but failure—for many reasons—to put it in practice. The wider distinction now between the civilised man and the savage makes artificial selection more than ever indispensable, as without it, in spite of the great advantage of the more general education of the people, their status in civilisation rather retrogrades than otherwise. Their education certainly increases their power to contribute to the general civilisation, but quite as much also to retard it. If the poor are rendered more efficient workers, the present of poverty upon a large proportion of them is much greater, and is doubtfully whether their moral condition is not therefore worse. I say doubtful—but contact with civilisation multiplies ideas and promotes intelligence, without which there can be no morality. There can be no doubt whatever that the demoralising conditions to which the poor are constantly exposed, produce a generally deteriorating effect.

One great cause of this, which was unknown to the ancients, is *moral sensibility*, and consists in the undue subordination of the intellect to unreflective feelings. Reason is dethroned, and sentimentality usurps its place. This error is demonstrable, because it can be shown that a more expanded view of the consequences proves that the sympathetic sensibilities—if under the direction of the intellect—will realise a far larger and purer satisfaction. The wealthy classes are not exempt from the evil effects, but the poor are as usual the principal victims. To such an extent has this world sentimentality been carried on in the last hundred years, that I think that all the advantages of the spread of education has been more than negated. It has in no case been much better protection to society in every way than the current penal system; that it would tend to reduce crime to a minimum; that the cost would be much less than might be supposed, if not less than the present expenditure; and experts assert that criminals cost society far more when at large than in confinement; and that by preventing the indiscriminate propagation of, and general contamination by criminals, a direct and certain moral improvement in the human race would be effected. But I have pointed out that a fatal objection to perpetual imprisonment, and all reformatory institutions, lies in the fact that they offer a premium to the criminal and lazy, and instead the honest poor that crime would solve all their difficulties and secure them state support, in comparative clover. My last proposition to utilize criminals—generally for scientific experiments, entirely of a nature that obviates all the objections of the present system of reformatory institutions. It would reduce the cost; it would be more extensively and discriminatively humane, and wisely administered it would besides secure, by the inevitable impulse to medical knowledge, incalculably beneficent effects upon the length, longevity, and morals, of the human race. Finally as regards intellect. The gradations between crime and lunacy are held by experts to be quite indistinguishable, and I am clearly of opinion that criminals and lunatics should receive indiscriminate treatment. We cannot—by any process—discern the particular motives of any individual; we know absolutely nothing of the strength of his temptation, or of his power of resistance. But we certainly know—as far as we can learn—of the nature of the crime, and the nature of the criminal, and the nature of his ancestry, as much as of himself, and that every act of man, sane or insane, philosopher or thief, is in the last resort, simply a necessary process of adjustment of an organism to its environment. Thus the idea of punishment is as inappropriate to the case of the criminal as to that of the lunatic. But, when we are conscious that it lies in our power to condemn our posterity to contamination, and moral prostration, or to save them from those evil conditions, I think that to sacrifice such objects to the tender

It is an important but much neglected

Though mainly in the form of conventional restrictions upon its acquisition.

See Sir W. Drummond's *Criticism on Darwinism*.

Treatment of Criminals in Relation to Science. By H. K. Rusden. Melbourne, 1872. Geo. Robertson, pp. 12-13.

To see the Speeches quoted by Professor Tyndal in his late address to the British Association, 19th September, 1874.

already specially exhibited these evils in a discourse "On the Treatment of Criminals in Relation to Science," which is in your library, and to which I beg to refer. To give connection to my present argument, I will quote from it two or three passages:—"The present state of things is notoriously unsatisfactory, but the full extent of the mischief produced can scarcely be apprehended, for it is of daily increasing proportions. A worse than foreign enmity is maintained by us in our midst, and favored with every advantage that our civilisation can furnish. We endow the criminal—known or unknown—with every protection from the ministers of the law, which is accorded to the honest citizen, and actually assume that he has not done what we know he has done, until a certain complex method of proofs has been fulfilled; and any loophole that a clever lawyer can find, is made effectual to save him from the legal consequences. But if, by force of circumstances, a conviction follows, the consequences tend rather to confirm him in his evil career, and perfect him in his profession. He lives, as before, at the cost of his honest neighbors, with medical, and every other attendance free; the most select of the society he prizes most; and to more work than is exactly calculated to keep him in health. He is far better fed, housed, and cared for, than many honest laborers; and he not only knows it, but proves, by returning it as soon as possible, that he appreciates it. But this is not all. Exactly in proportion to his reward for his crime, is the discouragement to the honest laborer, who cannot but be made too well aware of the difference in their fortunes, on every fresh liberation of the protected thief, to whose support he knows he has to contribute! The only wonder is that crime is not more general than it is. These are the demoralising influences to which I before alluded. "It is characteristic of the criminal classes, that they are both unscrupulous, and improvident, and set at naught the restrictions which society imposes upon the numerical increase of morally disposed persons. An enormous impediment to the moral progress of the people would be at once removed, were convicted criminals never liberated to propagate their evil kind; the honest poor would be so far relieved from competition—at an immense disadvantage—with such a sample not to avail themselves of means of subsistence from which honesty excludes a part—more or less of the burden of banding and reformatory asylums would be saved to society; the proportion of uneducated—or rather mis-educated—children would be largely reduced; and the first direct step probably in the history of the world would have been taken to improve, or rather stay the deterioration of, the race of human beings. For it must be obvious that if those below the general average of morality and intelligence multiply—as we know they do—far more rapidly, and more conspicuously than those above it, the tendency must be to lower the general average. And that tendency is enormously enhanced by the consequent increased competition, against which the honest poor have to contend in living, and in educating their children. The highest authorities agree, not only that the majority of criminals are the children of criminals, but that the large in-jury of the children of criminals become criminals themselves. And this is only what might naturally be expected by those who believe in cause and effect. It is inevitable, by that law of the persistence of force, which is as much the explanation of habit as the cause of heredity. And for all these reasons, an criminal by habit should never be released under any circumstances." I now farther say that I consider his release a crime against our children, and the human race. At page 24, I concluded by saying that the paramount fear of society should be to secure a far better protection to society in every way than the current penal system; that it would tend to reduce crime to a minimum; that the cost would be much less than might be supposed, if not less than the present expenditure; and experts assert that criminals cost society far more when at large than in confinement; and that by preventing the indiscriminate propagation of, and general contamination by criminals, a direct and certain moral improvement in the human race would be effected. But I have pointed out that a fatal objection to perpetual imprisonment, and all reformatory institutions, lies in the fact that they offer a premium to the criminal and lazy, and instead the honest poor that crime would solve all their difficulties and secure them state support, in comparative clover. 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that evening as a sign of progress. He was glad to see so many from other churches, and thought it a good sign when there was such a spirit of unity displayed. He did not wish to see unity as some would have it, as he believed in a healthy denominationalism. The various churches were like the spokes in a wheel, of which Christ was the centre, towards which all converged. He was glad to see such a spirit manifested, and urged all professing Christians to work for one end, the winning of souls for the Redeemer.

The Rev. W. C. YELLAND apologized for not being able to say much, as he was suffering from asthma, but expressed his cordial sympathy with the object which had brought them together. A few days before he had been talking with a friend of his, on how best to promote the interests of religion, and they had both concluded that if each minister, in his own church, were to preach only Christ and him crucified, by and by they would all insensibly be united together. The reverend gentleman concluded by speaking of the necessity of making a determinate stand against the rationalism, atheism, and materialism which now-a-days was so rampant.

The Rev. R. K. EWING said that there was one word in the English language which had come to his mind whilst he had been listening to the speakers that had preceded him. The word to his mind was a peculiarly expressive one; it was *denominationalism*. He felt so then. From the statements made by Mr. Smith, he had been inspired with the fear of butting the feet of the trawler, and the fear of Crono, for there is a chief among us takin' notes. An' faith he'd prent them.

It was not always an easy matter to make a speech. Even the most experienced amongst them was liable to get confused and nervous at times, and might get into the same hobble as the elergymen, who, after having got along with his discourse very well for a time, astonished his hearers by informing them that "Peter crowed three, and the cock went out and wet betterly." After speaking of the pleasure he felt at seeing such a gathering, he recommended the Oxley people as soon as possible, to get a hall erected that would be able to hold such a number as was then assembled. He cordially endorsed all that had been said about the spirit of love, charity, and brotherly kindness which he was glad to find existed in Oxley, and which ought to exist everywhere, but he would go even further than Mr. Smith or Mr. Yelland had gone, and whilst so doing would present an unbroken front, and at the same time a front of power, influence, and energy, which alone could do battle with the rationalism and scepticism of the present day. What was wanted by unity? Did it mean each man working for his own church, and meeting his brethren only on festive occasions like the present one? No; for that was only religious society, but was not the true spirit of co-operative and large-hearted unity. True every minister's first duty was to his own congregation, but all his surplusage of energy and depth and power should be given to the spread of catholicism. The first principle of unity was a cordial acknowledgment of a true Christian brotherhood, and then they would hear with the weaknesses, prejudices, and peculiarities of their neighbors. They should look to the moral and intellectual qualities of every minister of the gospel, ignoring all differences of opinion. The reverend gentleman then earnestly advocated an exchange of pulpits between the ministers of various denominations, and concluded by hoping that the time was not far distant when a real unity would exist for whom character was the only qualification for membership.

SULLIVAN THE MAUNGATAPU MURDERER. The San Francisco mail has brought intelligence as to what occurred on the voyage of the ship Hindostan, from New Zealand to London, the Maungatapu murderer, Sullivan, being one of the passengers. He went on board under the name of Clarke, and wore a flaxen wig and moustache, but he was recognised on the second day out by a lady passenger, who had photographs of Sullivan and his co-murderers. He was traced with being Sullivan, and threatened with incarceration, but he denied that he was the man, and dared the captain to imprison him, and he also spoke of an action for defamation of character on his arrival in England. Several times there was nearly a mutiny on board on account of his being left at large. On arriving off Penzance he wanted to go on shore with others of the passengers, but was not allowed. A telegram was sent to London from Penzance stating the fact of his being on board, and there were detectives to meet him when the ship anchored at Gravesend. From that time he has been closely watched, even a female detective being told off for the duty. Before the mail left he was lodging at a coffee house kept by a woman, and he had said that he intended to marry and settle down. He had money, and took his landlady to various places of amusement, but always under surveillance. He had also expressed his intention of leaving for the United States on account of the strict watch kept over him in England. The *Oxley Daily Times* expects to hear more of his future movements.

DEATH IN CHURCH.—A very sudden death occurred, on Sunday morning, says the *Telegraph*, during the celebration of divine service at the Temperance-hall, in Russell-street. Just as the preacher commenced his sermon, a man named John Thompson, a contractor, living in Flinders street fell down in a fit. Assistance being at once rendered he was carried out into an adjoining room, when medical aid was rendered by Dr. H. J. Herbert, but to no effect, death resulting in a few minutes. The deceased was sixty-three years of age, and had been some time under treatment for liver complaint. He seemed perfectly well before going to the Temperance-hall, and although it is supposed death resulted from disease of the heart, there is as yet no evidence to that effect. The body was removed to the Morgue.

TO DESTROY FIRES.—Got a four-horse power engine; put it in the back kitchen; run shafting in every room, connected with the engine aforesaid by belt, on the shafting place fly-wheels, on at the wheels with treadle, and set the engine going. The flies being attracted by the fly-wheels, will light on them and the very thing they will be whirled off, having a boy under each wheel with a bat, and let him smite them as they fall, and before they have time to recover from their dizziness. A stout boy has been known to kill fifty a day.

SCUPEL FROM SYDNEY.—A squatter informed us during last week that he could purchase his station supplies cheaper in Orange than in Sydney. On his way to Sydney he prudently inquired the quantities asked for several of his articles which he required at our leading wholesale houses. He quickly made a note of the prices named in Orange, and compared them with the prices asked in the metropolis, and seeing that Orange rates—after calculating carriage were considerably cheaper, he very wisely returned to Orange, and bought all the goods he required at our local warehouses. He says that the result to himself was a saving of fully 12 per cent. at least. Having stated his inability to account for this, as he seemed to him, some circumstances, he was told that the thing was very easily explained. He was informed that the reason why the Orange storekeepers could undersell the Sydney tradesmen, was that our Orange merchants did business on their own premises, built upon their own freehold, imported their own goods, and had them brought to their doors when carriage was at the lowest rate during the year, bought for cash, lived within their means, and superintended their own business, and were content with quick and ready sale. The gentleman seemed satisfied with the reasons given, and paid for his goods, and said that the next time he paid Orange a visit he would take another big parcel.—"Western Advertiser."

Who is it?—There is a mysterious foreigner in our midst, and says the *Telegraph*, he gave Collins street a great treat on Friday. The mysterious one should be a lancer in some service, because he wears a lancer's shako, a green tunic faced with magenta, and ornately striped down the seam with the same color. There really is a mystery about this bold adventurer, he is not usual for officers belonging to any army to parade in full uniform when "on leave" and when lancers do not put on "harness," they are not in the habit of toiling their swords, or of forgetting to put on spurs. Can it be that the mysterious dragon officer is a walking advertisement?

MELBOURNE PRODUCE MARKET.—McGraw, Adamson & Co. market has exhibited some slight variations since our last. On the day following its issue, there was an improved feeling in wheat, leading to rather a rise in the market. One lot was disposed of at 5s 6d to 5s 8d. One lot was obtained. The town millers, being thus supplied, have since held off buying, and as supplies by rail and seaboard are about sufficient for our requirements, there has been a slight decline in value. Disposed of some 500 bags fine Northern gran to-day, realizing 6s; at same time, flour was quoted from £12 15s to £12 17s 6d. Have been selling, privately, at £13, during the past week. In feeding grains, maize, in consequence of heavy purchases made, improved during the middle of last week, improved in price, and nothing under 5s 3d would be accepted by importers; nevertheless, there were no buyers over 5s 3d; and, consequently, business in this cereal has been much restricted; we sold a small lot of choice feed purposes, to-day, at 5s 11s 3d. Ordinary feed oats were 5s 4d to 5s 5d; and superior to 5s 8d. One lot was disposed of at 5s 6d to 5s 8d. In dairy produce there has been a fair enquiry for cheese, but as a considerable proportion of consignments are rather new, and bruised, and putted, the average prices are scarcely up to late ones. For a few prime lots full rates were obtained. Potatoes butter has met with fair sale at 7d to 8d for same, and 4d to 6d for old. Fresh about same as last week with the exception of a few favourite dairies, which realized up to the highest quotation.