Comment on Clark

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Dears:

These are some pages from my book in draft, Bourgeois Towns: How Capitalism Became Ethical, 1600-1776. It may be read on my website, deirdremccloskey.org.

A wonderfully clever version of the Statistical Rise of the Bourgeoisie has been asserted recently by the economic historian Gregory Clark, in his modestly sub-entitled “Brief Economic History of the World,” A Farewell to Alms (2007). In one-and-a-half pages towards the middle of his book Clark deals briskly with the numerous alternatives to his materialist hypothesis: “Social historians may invoke the Protestant Reformation, . . . intellectual historians the Scientific Revolution. . . . or the Enlightenment. . . . But a problem with these invocations of movers from outside the economic realm is that they merely push the problem back one step.”

That’s a very good point. Always a good point. Yes, indeed, one may properly ask why “after more than a thousand years of entrenched Catholic dogma”---set aside that such a view of Christian theology might be viewed as a trifle lacking in nuance, and derivative in fact from anti-Catholic propaganda since Voltaire---“was an obscure German preacher able to effect such a profound change in the way ordinary people conceived religious beliefs?”

Clark, however, like doubting Pilate, does not stay for an answer. He readily admits that “ideologies may transform the economic attitudes of societies.” But he has no scientific interest in the causes of ideologies, unless they fit his notion of the material if social inheritance of acquired characteristics (“and perhaps even the genes,” says he). He has not cracked a book on the history of the Reformation, or on the Scientific Revolution, or on the Enlightenment. So to get rid of pesky cultural arguments he reaches at once for a Materialist Lemma: “But ideologies are themselves the expression of fundamental attitudes in part derived from the economic sphere.” Ah. Only the phrase “in part,” a fleeting tribute to intellectual balance, keeps his sentence from being orthodox historical materialism. As a pair of historical materialists put it in 1848:

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1 Clark 2007, p. 183-184, from which subsequent quotations come.
Man's ideas, views and conceptions, in one word, man's consciousness, changes with every change in the conditions of his material existence, in his social relations and in his social life. What else does the history of ideas prove, than that intellectual production changes its character in proportion as material production is changed?²

The intellectually temperate phrase “in part” in Clark’s sentence is not cashed in. Rather, the check is immediately and absentmindedly torn up before our eyes. “There is, however,” Clark declares in the next sentence, “no need to invoke such a deus ex machina” as a change in ideology, because his own Chapter 6 fully explains on materialist grounds, with its own deus (high breeding rates among the rich), “the forces leading to a more patient, less violent, harder-working, more literate, and more thoughtful society,” namely, the bourgeois society we all so admire. In Clark’s book, that’s the end of ideology. Compare Anne McCant’s claim on slender evidence that a compassionate motivation for transfers from the Dutch wealthy to the poor is “unlikely” and “can be neither modeled nor rationally explained,” or Hugh Trevor Roper’s axiom that “in politics [prudence-only political ambition] is naturally by far the most potent” cause or indeed Engels claim that “interests, requirements, and demands of the various classes were concealed behind a religious screen.”³

Such evidence-poor side-remarks evince a historical rhetoric prevalent 1910-1980 that man’s consciousness changes with every change in the conditions of his material existence, and only with such changes. Thus Durkheim in The Elementary Forms of Religious Life in 1912 argued that ritual, not doctrine, was the heart of religion, because ritual performed the latent function of unifying a society. After all, what else does the history of ideas prove? That ideas don’t matter. Look at the history of stoicism or Protestantism or the abolition of slavery. All of them, you see, were motivated by material causes. Surely.

What Clark does pay out in hard cash is his materialist explanation of the change in English behavior. The argument goes like this:

For England... 1250-1800... the richest men had twice as many surviving children as the poorest... The superabundant children of the rich had to... move down.... Craftsmen’s sons became laborers, merchant’s sons petty traders, large landholder’s sons smallholders.... Patience, hard work, ingenuity, innovativeness, education... were thus spread biologically throughout the population.... The embedding of bourgeois values into the culture.... [in] China and Japan did not move as rapidly because... their upper social strata were only modestly more fecund.... Thus there was not the same cascade of children from the educated classes down the social scale.... England’s advantage law


in the rapid cultural, and potentially also genetic, diffusion of the values of the economically successful through society.\textsuperscript{4}

The means of (re)production determine the superstructure. Rich people proliferated, and by a social Darwinian struggle the poor and incompetent died out, leaving a master race of Englishmen to conquer the world.

Certainly it's a bold hypothesis, and was bold when first articulated by social Darwinists in the century before last. Clark defends it energetically, if narrowly. In fact, if the hypothesis were true it would fit smoothly with my own argument that a rhetorical change made the modern world. Clark says that “there must have been informal, self-reinforcing social norms in all preindustrial societies that discouraged innovation.”\textsuperscript{5} Precisely: the norms of anti-bourgeois aristocrats and clerics did discourage capitalism, until the Venetians temporarily, the Dutch temporarily, and at last the English and Scots permanently repealed the norms. Wrote John Milton, books and ideas “are as lively, and as vigorously productive, as those fabulous dragon's teeth; and being sown up and down, may chance to spring up armed men,” or wealthy merchants. The Levellers of the 1640s, writes David Wootton, “did not envisage a commercial society of the sort that was actually dominant in early Stuart England, a society of chartered companies and great capitalists; they hoped rather to establish a nation of shopkeepers.” All their other proposals, what Wootton calls an “extraordinary paradigm shift, which marks the birth of modern political theory”—manhood suffrage, a written constitution, non self-incrimination (freedom from waterboarding, we would say), right to counsel, freedom of religion, freedom of speech—took centuries to establish.\textsuperscript{6} But a definite move towards freedom of internal trade, for poor people as well as rich, actually came to pass in the lifetime of the last Leveller.

Clark, admitting though he does that such rhetoric may transform economic attitudes, would nonetheless wisely urge us to push the problem back one more step: why the rhetorical change? A very good point, I repeat, always a good point. It would imply, if we were committed to historical materialism, that some cause in the means of reproduction must be sought for the rhetoric. Under the Materialist Lemma a rhetoric never changes independent of economics—certainly not by causes within rhetoric itself such as the invention of the novel or the logic of Pascal-Nicole-Bayle in theology; not even by such causes as the political settlement in England of 1688 or the obsession with Protestant egalitarianism of all believers in Holland and Scotland from the mid-16th century or the ordinary man’s involvement in politics in Holland, England, and Scotland 1585 to 1660 or the chances of war that left the New Model Army in possession of the king and the country in 1645. Any non-economic and merely rhetorical change is always to be derived from the economic sphere. Intellectual production changes its character in proportion as material production is changed.

Clark is a competent scientist, and produces much evidence with which other scientists agree. It is crucial to distinguished the good arguments from the bad in his book, lest anyone think that the

\textsuperscript{4} Clark 2007, pp. 7-8, 11, 271.
\textsuperscript{5} Clark 2007, p. 165.
good arguments do much to support the bad. They don’t. Much of the book is uncontroversially good, a review for outsiders of what economic historians have learned since, say, Karl Polanyi.7 We all, we economic historians nowadays, agree that down to the 17th or 18th century England was trapped as the world has been since the caves in a Malthusian logic: no rapid innovation, so that more mouths always meant, soon, less bread per mouth, and the life of man was brutish and short. We all agree that the escape from the Malthusian trap is the most important event in world history, and we agree on the magnitude of the escape: in the teeth of gigantic increases in population “the richest modern economies are now ten to twenty times wealthier than the 1800 average.”8 We agree that innovation, not capital accumulation, was its cause. We agree that it happened first in Holland and England and Scotland. We agree that in China and especially in Japan there were some signs c. 1600 that it might happen there, and some of us think that it was Qing and Tokugawa lack of freedom and egalitarianism and the honoring of merchants that stopped it. We agree that since then the rewards to labor have increased and the rewards to capital and land have fallen, contrary to the predictions of the classical economists, including Marx. We agree that the poor of the world have been the largest beneficiaries of the escape from the Malthusian trap. We agree, in other words, on a great many findings from 1944 to the present that will strike the average devotee of Karl Polanyi or Louis Althusser or Barbara Ehrenreich as bizarre and counterintuitive. Geoffrey Sampson makes a similar point in his devastating rebuttal of the linguistic theories of “nativism” in Stephen Pinker:

I should say to start with that I am far from wanting to contradict every point that Pinker makes in his book. Quite a lot . . . has little or nothing to do with the nativism issue and is not at all controversial, at least not among people versed in the findings . . . It is possible to read The Language Instinct [and A Farewell to Alms] as a general survey.9

Just so.

What other historical scientists do not agree with, however, is Clark’s only distinctive argument, that English people became by virtue of their rate of breeding a race of Übermenchen living in an Übergemeinschaft. One of the few historical scientists with whom Clark agrees on the matter is David

7 Clark does have a bit of a problem with acknowledging other scientists. Pages 232-233 use without citation my design for a decomposition of growth during the Industrial Revolution (McCloskey 1981), and throughout he uses notions of bourgeois virtues pp. 11, 262 with which I am associated, without citation to my work (McCloskey 1994; 2006). As late as early November 2007 Clark gave a speech at the Salk Institute, with me sitting there, the only other economic historian in attendance, in which he explained his own way of measuring the European fall of interest rates 1300-1600 (pp. 167-175 in his book) without mentioning that I had discovered the fall and measured it in another statistical way ten years before he did (McCloskey and Nash 1984). Though of course one is best at detecting such slights of ones own work, I detect scores of these for other authors, too. It’s a reliable way of making scientific enemies for life. But let’s be easy. Clark most engagingly summarizes an enormous scientific literature, and if he gets any substantial number of non-economic intellectuals innocent of economic history to grasp what we other students of such matters all know happened 1600 to the present we will in our great-heartedness forgive him for the rest. The trouble with this hope is that his distinctive hypothesis is going to appeal only to the Steve Sailer, Stephen Pinkers, and Seth Roberts of the world and is going to repel everyone else.

8 Clark 2007, p. 2.

9 Sampson 2005, p.110.
Landes, whom he commends briefly for being “correct in observing that the Europeans had a culture more conducive to economic growth”---though Landes thinks the superior culture had more ancient sources than the breeding rates of late medieval families.\footnote{Clark 2007, p. 11.}

There are a lot of criticisms to be made of the distinctive part of Clark’s book. There are so many that it is going to have to be abandoned.

For one thing, non-European places have grown, after the example of Holland and England and Scotland. As the Nobel economist Robert Solow wrote in his scathing review of the book:

Clark’s pessimism about closing the gap between the successful and less successful economies may derive from the belief that nothing much can change unless and until the mercantile and industrial virtues seep down into a large part of the population, as he thinks they did in preindustrial England. That could be a long wait. If that is his basic belief, it would seem to be roundly contradicted by the extraordinary sustained growth of China and, a bit more recently, India. Embarrassingly for Clark, both of those success stories seem to have been set off by institutional changes, in particular moves away from centralized control and toward an open-market economy. NYRB November 2007

Not the commercial virtues inherited by people but the virtues praised by people is what’s required. China repealed its law against millionaires and Indian started admiring entrepreneurs, and both were off to the races.

For another, non-Europeans, those Untermenschen, become astoundingly rich when they moved into places in which bourgeois values are honored. It has nothing to do with inherited values. Clark shows little interest in American economic history, which is the main instance, or the numerous diasporas of Chinese or Armenians or whomever who enriched themselves away from the kingly chaos and aristocratic oppression of their homelands. He also shows little interest in his native Scotland, which did have an Industrial Revolution, but had as recently as the century before its revolution nothing like England’s “extraordinary stability,” partly indeed because of repeated invasions and other fishing in troubled waters by the stability-enjoying English. Nor does he show interest in my own ancestors, the Irish, who when they crossed the Irish Sea to staff the cotton and wool mills he investigates with such empirical imagination became instantly the good workers who couldn’t of course ever arise from such a turbulent and demographically unsound place as Ireland, which did not have an Industrial Revolution.

But the main failure of his hypothesis is, oddly, that a book filled with ingenious calculations, hundreds upon hundreds of them exhibiting Clark’s historical imagination---that quality of asking questions and seeing your way to answering them---does not calculate enough. It doesn’t ask or
answer the crucial historical questions. The argument can be diagrammed like this, as four states 1, 2, 3, 4 linked by three causal and transforming causal arrows A, B, C. Notice the bold entries:

The Clark Hypothesis:

Rich People are Better and Drive Out the Poor


2. more values spread work, ingenuity of all

The two large and bolded states at the ends, 1 and 4, get satisfying amounts of empirical attention. Clark’s writing on state 4 especially is conventional but as I said good. State 4, about which as I say we all agree and on which all of us have worked and of which it is most important that we persuade non-economic intellectuals, is nailed.

Yet Clark insists throughout on hammering on exclusively quantitative nails. So he skimps on state 3 and especially on state 2. Clark, who believes that when you cannot measure, your knowledge is meager and unsatisfactory, is not comfortable with literary and other “ego-document” sources, as German historians call them nowadays. And so he does not realize that written sources can themselves be counted, and in any case that how people speak is part of the empirical evidence. That Jesus said “render unto Caesar” is part of the empirical evidence about early Christianity’s relationship to the state. That Luther said “one prince, one faith” is similar evidence in the Reformation. In consequence of Clark’s aversion to words he does not have much to say about how one would know that “informal, self-reinforcing social norms” of rich people had spread. Therefore on State 2 he is very, very thin.

State 3 gets more attention, sometimes of a quantitative sort---South Asian workers work less, for example; and as Jan de Vries has put it there was an “industrious revolution” of more application to work in first the Dutch and then the English lands during the 17th and 18th centuries. Clark follows Mokyr and others, as I do, in emphasizing the ingenuity of inventors in cotton and iron and so forth, and uses a table which I devised in 1981 to show that the ingenuity in England 1780-1860 was in fact evident beyond such heroic industries.11

11 Cite Mokyr; the table is Clark p.233.
What is entirely missing, however, are calculations justifying the links A, B, C between the states. That’s the big problem. Clark notes for example that in countries with ill-disciplined labor forces, such as India, the employer doesn’t get as much output as in England, because the non-bourgeois values of the Indian workers and the employers leaves not enough “work” in the diagram. But the “as much” and “not enough” are nothing like the 20 to 30 times gap between poor India and rich England that he claims to be explaining. That is, Clark has failed to show how much Enrichment depends on Work, state 4 on state 3. He hasn’t done a calculation on the size of C. He hasn’t asked about its oomph. And so he naturally has no answer.

Nor does he do a calculation on link B, to show that state 3 depended mightily on state 2, that, say, that ingenuity depended on the spread of bourgeois values. It’s deucedly hard to do. I myself agree the link was very important yet I can’t think of ways to quantify it, and have had to rely instead on the metaphysically unsatisfactory but enormously rich and ubiquitous qualitative evidence which Clark spurns and which the other students of ingenuity such as Mokyr have exploited. Given his methodological rule of number, Clark is not to blame that even his admirable if strictly quantitative historical imagination is stymied by the question of how much bourgeois values acted to increase ingenuity. Still, his methodological stridency about number does make it embarrassing that he doesn’t even mention that for link B he can’t provide numbers. We fools like Jack Goldstone or Deirdre McCloskey—who merely listen to what people at the time were saying about B----get a certain satisfaction that Clark is thus hoist by his own methodological petard.

In light of Clark’s methodological convictions, though, the most embarrassing broken link is A, between “Rich breed more” and “Rich people’s values spread.” Nowhere in the book does Clark calculate what higher breeding rates could have accomplished by way of rhetorical change. It could easily be done, at any rate under his mechanical assumption about how the social construction of values works. Clark assumes that the children of rich people are by that fact carriers of the sort of bourgeois values that make for an Industrial Revolution.

To be sure, this is an odd characterization of the medieval or early modern relatively rich. A rich bourgeois of London in 1400 devoted most of his effort to arranging special protection for his wool-trading monopoly. His younger sons might well have taken away the lesson, repeated again and again down to Elizabethan England and Lou Dobbs, that it’s a good idea to regulate everything you can, and quite a bad thing to let people freely make the deals they wish to make. And a Brave Sir Botany who had stolen his riches, say, or was a successful courtier who had received them from Henry VIII dissolving monasteries, say, would not automatically, one would think, transmit sober bourgeois values to younger sons. A society that extravagantly admired aristocratic or Christian virtues could corrupt even a Medici banker into thinking of himself as quite the lord and yet also a godly son of the Church. In a similar way nowadays an extravagant admiration for the neo-aristocratic values of the clerisy corrupts the bourgeois daughter into scorning her father’s bourgeois occupation.

Clark, you see, is intrigued by neo-Darwinian theories applied to society. He believes that the bourgeois-behaving unit of meaning, a “meme” as some of the theorists call it, spreads strictly from
parents to children, like eye color. But the biological analogy here is very strange, and after the 16th-century gets stranger and stranger the cheaper and less regulated becomes European publishing and the wider spreads the grammar school (thus Shakespeare, son of a glover) and the universities (thus Kant, son of a saddler) and, to step down to the real bourgeoisie, the proliferating schools for young merchants. If solidly bourgeois behavior makes people rich you would think it would spread by imitation, across families, as from Defoe’s Essay Upon Projects (1697), which Benjamin Franklin cited as an influence, or from the hundreds of handbooks for youths in business from the 16th century on. The research biologist and professor of theology Alistair McGrath notes that recent work on genome sequencing has shown that the simplest forms of life trade genes contemporaneously. So do the most complex and cultural forms of life, such as 17th-century Europe. To apply genetics to cultural memes, he remarks, one would have to concede that “the origins of Renaissance humanism [say] . . . were deliberate, intentional, and planned. If Darwinism is about copying the instructions, . . . Lamarckism is about copying the product. . . . It would seem that Lamarck, rather than Darwin, offers the better account of cultural evolution.”

But leave aside the actual, empirical stories of how values are made. Clark’s lack of curiosity about the exact content of bourgeois values (values which I repeat he and I join in admiring) leaves him, I say, with a mechanical, neodarwinian, and extremely dubious model of how values get transmitted. But suppose his mechanical model is correct. Then a scientist of Clark’s quantitative ingenuity would have found it trivial to calculate, mechanically, what the higher rates of breeding would yield in bourgeois-minded but lower class people in the next generation. He didn’t.

The underlying problem is that Clark wants his story to be a very long-run story, because he has ambitions for its endogeneity, which is to say its historical materialism. He wants bourgeois values and the modern world to arise with slow-chapped pow’r out of a thousand years of English history. No dei ex machina, thank you very much---by which he means short-run and therefore contemptible events like the birth of English political freedom or the Protestant Reformation or the Scientific Revolution.

Why is his long-run ambition a problem for his story? Because his mechanical model of the transmission of values works too quickly, on a scale of a century or so---not ten centuries; then it dissipates. Regression to the mean alone would strictly limit the effect to a few generations. After all, we say “clogs to clogs” in merely three. As Francis Galton put it in making a similar calculation ---Galton in 1901 got further than Clark---very high inherited height or intelligence or bourgeois virtue dissipates strongly in children and more in grandchildren, “owing to the combination of ancestral influences---which are generally mediocre---with the purely parental ones.”

Galton was part of Darwin’s family, first notable in Erasmus, Charles’ and Francis’ grandfather. But their sons and daughters regressed. That puts paid to his long-run story. As the economist Samuel Bowles put it:

12 McGrath 2007, p. 127, italics deleted; p.41 on genome sequencing.
if \( h^2 = 0.26 \) the correlation across 4 generations (great grandfather-great grandson) is 0.032. If we estimate \( h^2 \) from the observed intergenerational correlation of traits (r) as above, then the correlation of a genetically transmitted trait across n generations is just \( r/2^{n-2} \). Thus the statistical association across generations becomes vanishingly small over the course of a single century, whether the trait is culturally or genetically transmitted. {Sam Bowles in Science magazine with a supplement here: http://3quarksdaily.blogs.com/3quarksdaily/2007/10/comments-on-gre.html ask Sam for cite}

Clark describes his central Chapter 6 as identifying “strong selective processes.”14 That’s the problem: they are too strong for a slow story, and so his own argument, were it true, would turn out to be one of the despised dei ex machine that work on a scale of decades or a few generations or a century at most. If he had followed his rule of number and had tried to calculate the oomph of link A he would have caught the scientific oversight before announcing to the world, against the evidence and the logic followed by everyone else in his field, that he had solved the leading scientific question in economics. Embarrassingly, he did not do the calculations.

Consider for example one of the bourgeois values we can measure, and Clark does, again with his usual quantitative insight, literacy. Male literacy in England, Clark reports, rose from the share of monks in the male population in, say, 1300 (though illiterate monks were by no means unknown; among the secular clergy illiteracy was commonplace) to perhaps 30 percent in 1580 and to 60 percent by the time national statistics start to be possible in the 1750s.

Think about it. If you are the parent of four children, and can read, what is the transition probability that all four of your children will read? It is extremely high, at any rate in a society that for some reason values literacy. Thus in families today “going to college” is extremely inheritable, but in one generation. Unlike my Irish ancestors, my Norwegian ancestors on the Hardanger Fjord were reading by the late 16th century, and never stopped. Why? Clearly, because of that Protestant Reformation, a literal Deus, to which Clark in his book explaining modern Europe allots eight words. No religion, please: we’re demographic historical materialists. The impoverished Norwegians (no bourgeois virtues there, eh?) learned to read quickly. The habit spread across families. And once in a family it stayed there.

So Clark’s socio-neoDarwinianism, which he appears to have acquired from a recent article by some economic theorists, has as little to recommend it as history.

An early version of Clark’s hypothesis may be examined in Galton’s Huxley Lecture to the Anthropological Institute in 1901:

14 Clark 2007, p. 183.
The number and variety aptitudes, especially in dogs, is truly remarkable. . . . So it is with the various natural qualities that go towards the making of civic worth in man (p. 3). . . . The brains of the nation lie in the higher of our classes (p. 11). . . . Dr. Farr, the eminent statistician, endeavored to estimate the money worth of an average baby born to the wife of an Essex laborer. . . . Dr. Farr, with accomplished actuarial skill, capitalized the value at the child’s birth . . . [It] was found to be £5. On a similar principle the worth of an X-class baby would be reckoned in thousands of pounds. . . . They found great industries, establish vast undertakings, and amass large fortunes for themselves. Others, whether they be rich or poor, are the guides and light of the nation (11-12). . . . Many who are familiar with the habits of [the lowest class] do not hesitate to say that it would be an economy and a great benefit if all habitual criminals were . . . peremptorily denied opportunities for producing offspring (20). . . . The possibility of improving the race of a national depends on the power of increasing its best stock (24).

This sort of reasoning was all fresh and new in 1901, and was still influential after the Great War, resulting in places like Norway, Sweden, and the United States in sterilization programs, brought to an end only in the 1970s. It even survived its application in Germany. It still attracts the quantitative and mechanical mind. It’s neat. It’s formalizable. It’s calculable (though, I repeat, Clark has not done the calculations that Galton pioneered).

But it doesn’t make any sense. It depends on measures of aptitudes that are, like height, influenced by more than inheritance and, unlike height, have no natural units invariant to society. What made for riches in 1600 had little to do with what made for riches in 2000. A graceful way with sonnets and a good leg for bowing are not similar to a Harvard MBA and a knack for computers. What mattered in modern economic growth was not a doubtfully measured alteration in the abilities of English people but a radical change 1600-1776, “measurable” in every play and pamphlet, in what England wanted, what England paid, what England valued.

References