

BOOK REVIEWS

When China Rules the World: The end of the Western World and the Birth of a New Global Order, by Martin Jacques, 2nd Edition, Penguin Books. 2012, pp 550, Price \$29.95.

Martin Jacques is a highly distinguished British scholar, writer and columnist. *When China Rules the World*, first published in 2009, is among his most important publications. Since then the book has been translated into eleven languages, and sold nearly quarter of a million copies worldwide. The book's focus is on Asian modernity and the rise of China as a global power is of course highly relevant for contemporary concern and interest in globalization, as well as, its implications for evaluating an evolution from the economic and geopolitical 'great divergence' to the recent rapid 'convergence' between China and the West. Jacques argues that the rise of China has not followed the Western model of a transition to modernity and will challenge the global dominance of the Western nation-state. China, as a 'civilization-state', will soon rule the world. Its impact will not be only the economic but also the culture, leading to a global future of 'contested modernity'.

Ting Xu of London School of Economics has rightly indicated that this excellent book raises more questions than it answers. China's growth and transformation were and are path-dependant. Historians will ask: 'has China ever ruled the world before?'

China did take the central-stage in the world economy, marking 'the rise of the East in World History' in the reign of Xuanzong (r. 712-756), Adshead (2004). Nevertheless, China did not rule the world in its 'golden age' – the Tang and Song period (618-1279 AD). The Tang (618-907 AD) was economically prosperous and politically strong: the territory of China expanded and foreign trade was developed. Literature and arts attained high levels of development. The Song (960-1279 AD) economy was even more remarkable for commercial, technological and urban growth. However, it was not (nearly) as politically and militarily successful, as the Tang. The Song came under constant threat to its borders from the nomadic tribes.

Tang-Song China has been recognized as the most prosperous periods in Chinese history based upon cultural pluralism and, the generation and diffusion of useful knowledge (proto science and technology) among cultural, intellectual and business networks. However, this efflorescence in Tang and Song China ended in a state of equilibrium. The Tang and Song cultural and institutional breakthrough did not continue. Cultural pluralism was superseded by unity. Although Neo-Con-

fucianism at its early stage engaged in debates with other modes of thought and encouraged the studies of nature - it matured into state orthodoxy under the Yuan (1271-1368 AD) and Ming (1368-1644 AD) dynasties which failed to distinguish between science and other forms of knowledge.

Thus, unlike Europe the study of nature in China was not institutionalized. An entrenched civil service examination system diverted human capital to compete for bureaucratic office. Proto scientists and engineers did not organize themselves into professions and their individual studies of nature were not transformed into a collective effort. Technological capacities (based on curiosity about the natural world and the proto experiments of farmers and artisans) developed in Tang and Song China and did not evolve into modern forms that are based on empirically and transparently tested scientific knowledge. China entered into a stable and steady state in which economic growth depended on inputs of land and labor rather than science and technology.

The author argues that the economic and geopolitical divergence between China and Europe occurred as late as 1800 AD. Yet the West's surge to global supremacy was not just a late and contingent historical outcome. Structural and institutional divergence probably emerged in the Middle Ages. As Joseph Bryant argued, prior to any massive-scale social transformation, there must have been a period of preparation in which 'a series of interdependent institutional and cultural developments unfolded cumulatively over the long-term' to allow and propel such rapid change [Bryant (2006)]. Indeed Jacques acknowledges some particular characteristics of Europe's transition to modernity: threat from Islam, internal intra-continental conflicts, colonialism, the transition from an agrarian to an industrial society, and a cultural transformation into individualism (pp. 40-43). Yet he seems to have ignored one important factor behind the technological and economic divergence between China and Europe – the cultural and institutional regimes for generating and circulating useful knowledge (science and technology). There was 'European exceptionalism', fortuitously but fortunately, throughout these regimes, at least three centuries between 1500 and 1800 AD.

Thus, will China rule the world again? In the spheres of innovation and education, China is displaying remarkable achievements. The government has the ability to mobilize a significant amount of resources and money to invest in high technology. Human capital is accumulating rapidly – the number of science and engineering degrees granted by Chinese universities is now comparable to USA. Yet, the Chinese high-technology sphere also faces many challenges. The USA (which has now superseded Europe as a metaphor for modernity) remains the ideal place for Chinese elites to further their studies and to enhance their academic or professional career. According to the figure from a survey by the Oak Ridge Institute for Science and Education in Tennessee, ninety-two per cent of Chinese who gained a Ph.D. in science and engineering in 2002 were still in the USA in 2007. The USA continue

to retain the best and the brightest Chinese students. Within China, becoming a civil servant remains a number one career choice for university graduates. Pursuing alternative careers in science and engineering or in private business sector seems less attractive.

There are also many obstacles to entrepreneurship and innovation. For example, it is still difficult for small-sized private enterprises to access bank loans. In many cases, the nature of the firm is unclear. The distinction between the public and the private sector is blurred. Furthermore, the protection of intellectual property rights needs to be developed and enforced. Chinese universities are still being run as government bureaus. Directors of universities hold governmental ranks. Space for free academic discussion and diverse modes of thought is still limited.

Similarly, many high-technology and innovative schemes are still directed by the top-down approach. Although, to some extent it is efficient to mobilize resources and human capital, it is not encouraging for innovation in the long-run. Furthermore, this approach and the involvement of the government could emphasize quantity, rather than the quality for R&D.

China has become a challenge to the West (in particular the USA) and is reshaping the global economy. China will not replace the USA, if it cannot make further cultural and institutional breakthrough. *When China Rules the World* is a significant contribution to enquires into these questions.

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Bibliography

Adshead, S.A.M., 2004, *Tang China: The rise of the East in World history* Basingstoke: Palgrave Macmillan.

Bryant, Joseph M., 2006, The west and the rest, Revisited: Debating capitalist origins, European colonialism, and the advent of modernity, *The Canadian Journal of Sociology*, 31(4): 403.