

## **Curriculum Vitae: Nicholas F. R. Crafts**

### **Born**

March 9, 1949, Nottingham, England; married with 3 children.

### **Educated**

Trinity College, Cambridge. First Class Honours, Economics Tripos, parts I & II, 1967-1970.

### **Employment**

1971-2: Lecturer in Economic History, University of Exeter.

1972-7: Lecturer in Economics, University of Warwick (on leave 1974-6).

1974-6: Visiting Assistant Professor of Economics, University of California, Berkeley.

1977-86: CUF Lecturer in Economics, University of Oxford and Fellow in Economics, University College, Oxford (on leave 1982-3).

1982-3: Visiting Professor of Economics, Stanford University.

1987-8: Professor of Economic History, University of Leeds.

1988-95: Professor of Economic History, University of Warwick.

1995-2005: Professor of Economic History, London School of Economics.

2006-9: Professor of Economic History, University of Warwick.

2009-: Professor of Economic History and Director of ESRC CAGE Research Centre, University of Warwick.

### **Honours**

Wrenbury Scholarship for Best Degree in Economics at Cambridge in 1970.

Fellow of the British Academy, 1992.

Honorary Professor, University of Warwick, 1995-2005.

Founding Academician, Academy of Learned Societies for the Social Sciences, 1999.

### **Major Grants**

1992-3: 279,000 Ecus from European Commission to direct Research Network on Postwar Economic Growth, with G. Toniolo.

2001-5: £167,654 from Economic & Social Research Council for research on "Understanding the Effects of Different Generations of Large-Scale Technological Change", with T. Leunig. *Project report graded "Outstanding" by ESRC.*

2006-7: £98,912 from Economic & Social Research Council for research on "The Effect of Ownership and Regulation on British Railway Performance , 1850-2006", with T. Leunig.

2010-14: £3.6mn. from Economic & Social Research Council for ESRC Research Centre on Competitive Advantage in the World Economy (CAGE).

## **Publications**

### **a) Book**

1) *British Economic Growth during the Industrial Revolution* (Oxford: Clarendon Press, 1985); reprinted in paperback 1986, 1987, 1990, 1991. Pp. 193.

### **b) Edited Books.**

2) *The British Economy Since 1945* (Oxford: Clarendon Press, 1991) with N. W. C. Woodward.

3) *Essays in Quantitative Economic History* (Oxford: OUP, 1991) with N. H. Dimsdale and S. L. Engerman.

4) *Britain in the International Economy, 1870-1939* (Cambridge: CUP, 1992) with S. N. Broadberry.

5) *Economic Growth in Europe since 1945* (Cambridge: CUP, 1996) with G. Toniolo.

6) *Quantitative Aspects of Postwar European Economic Growth* (Cambridge: CUP, 1996), with B. van Ark.

7) *Work and Pay in Twentieth Century Britain* (Oxford: OUP, 2007), with I. Gazeley and A. Newell.

### **c) Occasional Papers**

8) *Can De-Industrialization Seriously Damage Your Wealth?* (London: IEA, 1993). Pp. 92.

9) *Britain's Relative Economic Decline 1870-1995* (London: Social Market Foundation, 1997). Pp. 68.

10) *The Conservative Governments' Economic Record: An End of Term Report* (London: IEA, 1998). Pp. 45.

11) *Britain's Relative Economic Performance, 1870-1999* (London: IEA, 2002). Pp. 116.

12) *High Quality Public Services for Scotland* (Glasgow: Fraser of Allander Institute, 2004).

Pp. 64.

- 13) *The Economic Impact of ICT: a Perspective from the Age of Steam* (Lancaster University, 2005). Pp. 14.
- 14) *Interpreting Ireland's Economic Growth* (background paper for UNIDO, *Industrial Development Report*, 2005). Pp. 20.
- 15) *Productivity at the Periphery: What Can Wales Do To Compete ?* (Cardiff University, 2005). Pp. 9.
- 16) "The Historical Significance of Transport for Economic Growth and Productivity", background paper for Eddington Report (2005), with T. Leunig. Pp. 65.

**d) Papers in Refereed Journals.**

- 17) "Trade as a Handmaiden of Growth: An Alternative View", *Economic Journal* (1973), 83, 875-84, reprinted in C. K. Harley (ed.), *The Integration of the World Economy, 1850-1914* (Elgar, 1996).
- 18) "The Role of Simulation Techniques in the Theory and Observation of Family Formation", *Population Studies* (1975), 29, 75-95, with N. J. Ireland; reprinted in Russian in *Novoe V Zarubezhnoi Demografii pod redaktsiei A. G. Volkora*, Moscow, 1980.
- 19) "English Economic Growth in the Eighteenth Century: A Re-examination of Deane and Cole's Estimates", *Economic History Review* (1976), 29, 226-35.
- 20) "A Simulation of the Impact of Changes in Age at Marriage before and during the Advent of Industrialization in England", *Population Studies* (1976), 30, 495-510, with N. J. Ireland.
- 21) "Family Limitation and the English Demographic Revolution: A Simulation Approach", *Journal of Economic History* (1976), 36, 598-623, with N. J. Ireland.
- 22) "Determinants of the Rate of Parliamentary Enclosure", *Explorations in Economic History* (1977), 14, 227-49.
- 23) "Industrial Revolution in England and France: Some Thoughts on the Question 'Why Was England First?'" , *Economic History Review* (1977), 30, 429-41; reprinted in J. Mokyr (ed.), *The Economics of the Industrial Revolution* (Rowman and Allenheld, 1985).
- 24) "Enclosure and Labor Supply Revisited", *Explorations in Economic History* (1978), 15, 172-83.
- 25) "Entrepreneurship and a Probabilistic View of the Industrial Revolution", *Economic History Review* (1978), 31, 613-4.
- 26) "Average Age at First Marriage for Women in Mid-Nineteenth Century England and

- Wales", *Population Studies* (1978), 32, 21-5.
- 27) "Victorian Britain Did Fail", *Economic History Review* (1979), 32, 533-7; reprinted in D. N. McCloskey, *Enterprise and Trade in Victorian Britain* (Allen and Unwin, 1981).
- 28) "National Income Estimates and the British Standard of Living Debate: A Re-appraisal of 1801-31", *Explorations in Economic History* (1980), 17, 176-88.
- 29) "Regional Price Variations in England in 1843: An Aspect of the Standard of Living Debate", *Explorations in Economic History* (1982), 19, 51-70.
- 30) "Illegitimate Fertility in England and Wales in 1911", *Population Studies* (1982), 36, 327-31.
- 31) "British Economic Growth, 1700-1831: A Review of the Evidence", *Economic History Review* (1983), 36, 177-99.
- 32) "Gross National Product in Europe, 1870-1910: Some New Estimates", *Explorations in Economic History* (1983), 20, 387-401.
- 33) "Economic Growth in France and Britain, 1830-1910: A Review of the Evidence", *Journal of Economic History* (1984), 44, 49-67.
- 34) "A Cross Section Study of Legitimate Fertility in England and Wales in 1911", *Research in Economic History* (1984), 9, 89-107.
- 35) "Patterns of Economic Development in Nineteenth Century Europe", *Oxford Economic Papers* (1984), 36, 438-58; reprinted in B. van Ark (ed.), *Economic Growth in the Long Run: A History of Empirical Evidence* (Elgar, 1996).
- 36) "English Workers' Real Wages during the Industrial Revolution: Some Remaining Problems", *Journal of Economic History* (1985), 45, 139-44.
- 37) "Some Evidence of Insider Knowledge in Horserace Betting in Britain", *Economica* (1985), 52, 295-304.
- 38) "Comparative Advantage in UK Manufacturing Trade, 1910-1935", *Economic Journal* (1986), 96, 629-45, with M. F. Thomas; reprinted in C. H. Feinstein (ed.), *The Economic Development of Britain since 1870* (Elgar, 1996) and in C. K. Harley (ed.), *The Integration of the World Economy, 1850-1914* (Elgar, 1996).
- 39) "British Economic Growth, 1700-1850": Some Difficulties of Interpretation", *Explorations in Economic History* (1987), 24, 245-68.
- 40) "How Much Have We Learnt about Fertility Change during Modernization?", *Contemporary Sociology* (1987), 16, 679-81.
- 41) "Long Term Unemployment in Britain in the 1930s", *Economic History Review* (1987),

- 40, 418-32.
- 42) "Cliometrics, 1971-1986: A Survey", *Journal of Applied Econometrics* (1987), 2, 171-92.
- 43) "The Assessment: British Economic Growth over the Long Run", *Oxford Review of Economic Policy* (1988), 4(1), i-xxi.
- 44) "British Industrialization in an International Context", *Journal of Interdisciplinary History* (1989), 29, 415-28; reprinted in C. K. Harley (ed.), *The Integration of the World Economy, 1850-1914* (Elgar, 1996).
- 45) "Trends and Cycles in British Industrial Production, 1700-1913", *Journal of the Royal Statistical Society* (1989), series A, 152, 43-60, with S. J. Leybourne and T. C. Mills.
- 46) "The Climacteric in Late Victorian Britain and France: A Reappraisal of the Evidence", *Journal of Applied Econometrics* (1989), 4, 103-17, with S. J. Leybourne and T. C. Mills.
- 47) "Long Term Unemployment, Excess Demand and the Wage Equation in Britain, 1925-1939", *Economica* (1989), 56, 247-54.
- 48) "Duration of Marriage, Fertility and Women's Employment Opportunities in England and Wales in 1911", *Population Studies* (1989), 43, 325-35.
- 49) "The Impact of the Depression of the 1930s on Productive Potential in the United Kingdom", *European Economic Review* (1990), 34, 599-607, with S. N. Broadberry.
- 50) "Measurement of Trend Growth in European Industrial Output before 1914: Methodological Issues and New Estimates", *Explorations in Economic History* (1990), 27, 442-67, with S. J. Leybourne and T. C. Mills.
- 51) "Explaining Anglo-American Productivity Differentials at Mid-Century", *Oxford Bulletin of Economic and Statistics* (1990), 52, 375-402, with S. N. Broadberry.
- 52) "European Productivity in the Twentieth Century: Introduction", *Oxford Bulletin of Economic and Statistics* (1990), 52, 331-41, with S. N. Broadberry.
- 53) "Reversing Relative Economic Decline? The 1980s in Historical Perspective", *Oxford Review of Economic Policy* (1991), 7(3), 81-98; reprinted in W. Grant (ed.), *Industrial Policy* (Elgar, 1995) and in T. Jenkinson (ed.), *Readings in Macroeconomics* (Oxford University Press, 1996).
- 54) "Institutions and Economic Growth", *West European Politics* (1992), 15, 16-38.
- 55) "Output Growth and the British Industrial Revolution: A Restatement of the Crafts-Harley View", *Economic History Review* (1992), 45, 703-30, with C. K. Harley; reprinted in B. van Ark (ed.), *Economic Growth in the Long Run: A History of Empirical Evidence* (Elgar, 1996).
- 56) "Britain's Productivity Gap in the 1930s: Some Neglected Factors", *Journal of Economic*

- History* (1992), 52, 531-58, with S. N. Broadberry.
- 57) "Productivity Growth Reconsidered", *Economic Policy* (1992), 15, 388-426.
- 58) "Adjusting from War to Peace in 1940s Britain", *Economic and Social Review* (1993), 25, 1-20.
- 59) "Trends in Real Wages in Britain, 1750-1913", *Explorations in Economic History* (1994), 31, 176-194, with T. C. Mills.
- 60) "Labour in Power but Not in Control", *Labour History Review* (1994), 59, 45-47.
- 61) "The Industrial Revolution as a Macroeconomic Epoch: An Alternative View", *Economic History Review* (1994), 47, 769-775, with T. C. Mills.
- 62) "Cotton Textiles and Industrial Output Growth during the Industrial Revolution", *Economic History Review* (1995), 48, 134-144, with C. K. Harley.
- 63) "Macro-inventions, Economic Growth and 'Industrial Revolution' in Britain and France", *Economic History Review* (1995), 48, 591-598.
- 64) "The Golden Age of Economic Growth in Western Europe, 1950-73", *Economic History Review* (1995), 48, 429-447.
- 65) "Recent Research on the National Accounts of the UK, 1700-1939", *Scandinavian Economic History Review* (1995), 43, 17-29.
- 66) "The Golden Age of Economic Growth in Postwar Europe: Why Did Northern Ireland Miss Out?", *Irish Economic and Social History* (1995), 22, 5-25.
- 67) "Exogenous or Endogenous Growth? The Industrial Revolution Reconsidered", *Journal of Economic History* (1995), 55, 745-772.
- 68) "De-Industrialisation and Economic Growth", *Economic Journal* (1996), 106, 172-183.
- 69) "The First Industrial Revolution: A Guided Tour for Growth Economists", *American Economic Review Papers and Proceedings* (1996), 86, 197-201.
- 70) " 'Post-Neoclassical Endogenous Growth Theory': What are its Policy Implications?", *Oxford Review of Economic Policy* (1996), 12(2), 30-47; reprinted in T. Jenkinson (ed.), *Readings in Macroeconomics* (Oxford University Press, 2000).
- 71) "Trend Growth in British Industrial Output, 1700-1913: A Reappraisal", *Explorations in Economic History* (1996), 33, 277-295, with T. C. Mills.
- 72) "Modelling Trends in Economic History", *The Statistician* (1996), 45, 153-159, with T.

C. Mills.

- 73) "British Economic Policy and Industrial Performance in the Early Postwar Period", *Business History* (1996), 38, 65-91, with S. N. Broadberry.
- 74) "Some Dimensions of the 'Quality of Life' during the British Industrial Revolution", *Economic History Review* (1997), 50, 690-712.
- 75) "Economic Growth in East Asia and Western Europe Since 1950: Implications for Living Standards Since 1950", *National Institute Economic Review* (1997), 162, 75-84.
- 76) "Endogenous Innovation, Trend Growth and the British Industrial Revolution", *Journal of Economic History* (1997), 57, 950-956, with T. C. Mills.
- 77) "The Human Development Index and Changes in Standards of Living: Some Historical Comparisons", *European Review of Economic History* (1997), 1, 299-322.
- 78) "The Postwar Settlement: Not Such a Good Bargain After All", *Business History* (1998), 39, 73-79, with S. N. Broadberry.
- 79) "Forging Ahead and Falling Behind: The Rise and Relative Decline of the First Industrial Nation", *Journal of Economic Perspectives* (1998), 12(2), 193-210.
- 80) "East Asian Growth Before and After the Crisis", *IMF Staff Papers* (1999), 46, 139-166.
- 81) "Implications of Financial Crisis for East Asian Trend Growth", *Oxford Review of Economic Policy* (1999), 15(3), 110-131.
- 82) "Economic Growth in the Twentieth Century", *Oxford Review of Economic Policy* (1999), 15(4), 18-34.
- 83) "After the Golden Age: A Long Run Perspective on Growth Rates that Speeded Up, Slowed Down and Still Differ", *The Manchester School* (2000), 68, 68-91, with T. C. Mills.
- 84) "Simulating the Two Views of the First Industrial Revolution", *Journal of Economic History* (2000), 60, 819-841, with C. K. Harley.
- 85) "Competition and Innovation in 1950s Britain", *Business History* (2001), 42, 97-118, with S. N. Broadberry.
- 86) "A Perspective on UK Productivity Performance", *Fiscal Studies* (2001), 22, 271-306, with M. O'Mahony.
- 87) "UK Real National Income, 1950-1998: Some Grounds for Optimism", *National Institute Economic Review* (2002), 181, 87-95.
- 88) "The Human Development Index, 1870-1999: Some Revised Estimates", *European Review of Economic History* (2002), 6, 395-405.

- 89) "UK Productivity Performance from 1950 to 1979: a Restatement of the Broadberry-Crafts View", *Economic History Review* (2003), 56, 718-735, with S. N. Broadberry
- 90) "Globalisation and Economic Growth: an Historical Perspective", *The World Economy* (2004), 27, 45-58; reprinted in Chinese in *Comparative Economic and Social Systems* (2005).
- 91) "Sectoral Output Trends and Cycles in Victorian Britain", *Economic Modelling* (2004), 21, 217-232, with T. C. Mills.
- 92) "Was Nineteenth Century British Growth Steam-Powered ? the Climacteric Revisited", *Explorations in Economic History* (2004), 41, 156-171, with T. C. Mills.
- 93) "Long Term Growth Prospects in Transition Economies: A Reappraisal", *Structural Change and Economic Dynamics* (2004), 15, 101-118, with K. Kaiser.
- 94) "Steam as a General Purpose Technology: a Growth Accounting Perspective", *Economic Journal* (2004), 114, 338-351.
- 95) "Productivity Growth in the Industrial Revolution: a New Growth Accounting Approach", *Journal of Economic History* (2004), 64, 521-535.
- 96) "Regional GDP in Britain, 1871-1911: Some Estimates", *Scottish Journal of Political Economy* (2005), 52, 54-64.
- 97) "The First Industrial Revolution: Resolving the Slow Growth/Rapid Industrialization Paradox", *Journal of the European Economic Association* (2005), 3, 525-534.
- 98) "TFP Growth in British and German Manufacturing, 1950-1996", *Economic Journal* (2005), 115, 649-670, with T. C. Mills.
- 99) "What Explains the Location of Industry in Britain, 1871-1931 ?", *Journal of Economic Geography* (2005), 5, 499-518, with A. Mulatu.
- 100) "Market Potential in British Regions, 1871-1931", *Regional Studies* (2005), 39, 1159-1166.
- 101) "Regulation and Productivity Performance", *Oxford Review of Economic Policy*, (2006) 22, 186-202.
- 102) "How Did the Location of Industry Respond to Falling Transport Costs in Britain before World War I ?", *Journal of Economic History* (2006), 66, 575-607, with A. Mulatu.
- 103) "Recent European Economic Growth: Why Can't It Be Like the Golden Age ?", *National Institute Economic Review* (2007), 199, 69-81.
- 104) "Total Factor Productivity Growth on Britain's Railways 1852-1912: a Reappraisal of the Evidence", *Explorations in Economic History* (2007), 44, 608-634, with T. C. Mills

and A. Mulatu.

- 105), "Were British Railway Companies Well-Managed in the Early Twentieth Century ?", *Economic History Review* (2008), 61, 842-866, with T. Leunig and A. Mulatu.
- 106) "From Malthus to Solow: How Did the Malthusian Economy Really Evolve ?", *Journal of Macroeconomics* (2009), 31, 68-93, with T. C. Mills.
- 107) "Transport Infrastructure Investment: Implications for Growth and Productivity", *Oxford Review of Economic Policy* (2009), 25, 327-343.
- 108) "Solow and Growth Accounting: a Perspective from Quantitative Economic History", *History of Political Economy* (2009), 41(5), 200-220.
- 109) "Cliometrics and Technological Change: a Survey", *European Journal of the History of Economic Thought* (2010), forthcoming.
- 110) "The Contribution of New Technology to Economic Growth: Lessons from Economic History", *Revista de Historia Economica* (2010), forthcoming.
- 111) "How Good was the Profitability of British Railways, 1870-1912 ?", *Economic History Review* (2011), forthcoming, with B. Mitchell and D. Chambers.

**e) Papers in Non-Refereed Journals.**

- 112) "Eighteenth Century Local Population Studies in the Context of Aggregate Estimates for England and Wales", *Local Population Studies* (1974), 13, 19-29.
- 113) "Some Aspects of Interactions between Population Growth and Economic Circumstances in Eighteenth Century England and Wales", *Exeter Papers in Economic History* (1976), 11, 49-63.
- 114) "Income Elasticities of Demand and the Release of Labour by Agriculture during the British Industrial Revolution", *Journal of European Economic History* (1980), 9, 153-68; reprinted with minor revisions in J. Mokyr (ed.), *The Economics of the Industrial Revolution* (Rowman and Allenheld, 1985).
- 115) "A Time Series Study of Fertility in England and Wales, 1877-1938", *Journal of European Economic History* (1984), 13, 571-590.
- 116) "What is Economic History?", *History Today* (1985), 35(2), 40-1; reprinted in J. Gardiner (ed.), *What Is...History?* (Macmillan, 1987).
- 117) "Productivity Growth and Structural Change in the British Industrial Revolution", *Refresh* (1987), 4, 1-4; reprinted in A. Digby and C. H. Feinstein (eds.), *New Directions in Economic and Social History* (Macmillan, 1989).
- 118) "Revealed Comparative Advantage in Manufacturing, 1899-1950", *Journal of European*

*Economic History*, (1989), 18, 127-137.

- 119) "The New View of British Economic Growth and Gerschenkron's Hypotheses", *Revista di Storia Economica* (1989), 6, 39-59.
- 130) "The Implications of British Macroeconomic Policy in the 1930s for Long Run Growth Performance", *Revista di Storia Economica* (1990), 7, 1-19, with S. N. Broadberry.
- 121) "UK Productivity Performance in a Comparative Perspective" *The Economic Review* (1993), 11(2), 19-22.
- 122) "Managing Decline?: 1870-1990", *History Today* (1994), 45(6), 37-42.
- 123) "Asia's Miracle: They Think Its All Over...It Need Not Be Yet", *Economic Outlook* (1998), 23(1), 11-21.
- 124) "A Perspective on UK Productivity", *New Economy* (1999), 6(1), 3-16, with M. O'Mahony.
- 125) "Some Comparative Aspects of Ireland's Economic Transformation", *Irish Banking Review* (1999), Autumn, 39-51, with F. Barry.
- 126) "Does Britain Have a Productivity Problem ?", *Economic Review* (2000), 17(3), 16-20.
- 127) "Is Economic Growth Good For Us ?", *World Economics* (2003), 4(3), 35-49.
- 128) "Fifty Years of Economic Growth in Western Europe: No Longer Catching Up but Falling Behind ?", *World Economics* (2004), 5(2), 131-145.
- 129) "The 'Death of Distance': What Does It Mean for Economic Development ?", *World Economics* (2005), 6(3), 1-14.
- 130) "Profits of Doom ?", *New Left Review* (2008), 54, 49-60.

**f) Chapters in Books.**

- 131) "The Eighteenth Century: An Overview", in R. C. Floud and D. N. McCloskey (eds.), *The Economic History of Britain since 1700* vol. 1 (CUP, 1981), 1-16.
- 132) "Economic History", in J. Eatwell, M. Milgate and P. Newman (eds.), *The New Palgrave: A Dictionary of Economic Theory and Doctrine*, vol. 2 (Macmillan, 1987), 37-42.
- 133) "Empty Economic Boxes", in J. Eatwell, M. Milgate and P. Newman (eds.), *The New Palgrave: A Dictionary of Economic Theory and Doctrine*, vol. 2 (Macmillan, 1987), 133-4.
- 134) "The New Economic History and the Industrial Revolution", in P. Mathias and J. Davis

- (eds.), *The First Industrial Revolutions* (Blackwell, 1989), 25-43.
- 135) "Real Wages, Inequality and Economic Growth in Britain, 1750-1850", in P. Scholliers (ed.), *Real Wages in Historical and Comparative Perspective* (Berg, 1989), 75-95.
- 136) "The British Economy Since 1945: Introduction and Overview", in N. F. R. Crafts and N. W. C. Woodward (eds.), *The British Economy Since 1945* (Clarendon Press, 1991), 1-24.
- 137) "Economic Growth", in N. F. R. Crafts and N. W. C. Woodward (eds.), *The British Economy Since 1945* (Clarendon Press, 1991), 261-290.
- 138) "Introduction" in N. F. R. Crafts, N. H. Dimsdale and S. L. Engerman (eds.), *Essays in Quantitative Economic History* (OUP, 1991), vii-xxi.
- 139) "Economics and History", in D. Greenaway, I. Stewart and M. Bleaney (eds.), *Companion to Contemporary Economic Thought* (Routledge, 1991), 812-829.
- 140) "Britain", in R. Sylla and G. Toniolo (eds.), *Patterns of European Industrialization: Rethinking Gerschenkron's Hypotheses* (Routledge, 1991), 109-152, with S. J. Leybourne and T. C. Mills.
- 141) "British Macroeconomic History, 1870-1939: Overview and Key Issues", in S. N. Broadberry and N. F. R. Crafts (eds.), *Britain in the International Economy* (CUP, 1992), 1-27, with S. N. Broadberry.
- 142) "British Economic Fluctuations, 1851-1913: A Perspective Based on Growth Theory", in S. N. Broadberry and N. F. R. Crafts (eds.), *Britain in the World Economy, 1870-1939* (CUP, 1992), 98-134, with T. C. Mills.
- 143) "Productivity Growth in West Germany and the UK, 1950-1990", in K. Rohe, G. Schmidt and H. Pogge von Strandmann (eds.), *Deutschland-Grossbritannien-Europa* (Universitätsverlag Dr N. Brockmeyer, 1992), 27-53.
- 144) "Was the Thatcher Experiment Worth It?: British Economic Policy in a European Context", in B. van Ark, D. Pilat and E. Szirmai (eds.), *Explaining Economic Growth* (Elsevier-North Holland, 1993), 327-350.
- 145) "Winning Systems? Some Further Evidence on Insiders and Outsiders in British Horse Race Betting", in D. B. Hausch, V. Lo and W. T. Ziemba (eds.), *Efficiency of the Racetrack Betting Market* (Academic Press, 1994), 545-549.
- 146) "The Industrial Revolution", in R. C. Floud and D. N. McCloskey (eds.), *The Economic History of Britain since 1700* (CUP, 1994), 44-59.
- 147) "Human Capital and Productivity in Advanced Societies", in J. James and M. Thomas (eds.), *Capitalism in Context* (Chicago UP, 1994), 183-201.
- 148) "Economic Profile", in P. Allan, J. Benyon and B. McCormick (eds.), *Focus on Britain*

- (Philip Allan, 1994), 99-103.
- 149) "Industry", in D. Kavanagh and A. Seldon (eds.), *The Major Effect, 1990-4* (Macmillan, 1994), 206-222.
- 150) "'You've Never Had It So Good?': British Economic Policy and Performance, 1945-60", in B. Eichengreen (ed.), *Europe's Postwar Recovery* (CUP, 1995), 246-270.
- 151) "Postwar Growth: An Overview", in N. F. R. Crafts and G. Toniolo (eds.), *Economic Growth in Europe since 1945* (CUP, 1996), 1-37, with G. Toniolo.
- 152) "British Economic Growth Since 1945: Relative Economic Decline...and Renaissance?", in N. F. R. Crafts and G. Toniolo (eds.), *Economic Growth in Europe since 1945* (CUP, 1996), 131-172, with C. Bean.
- 153) "Reflections on the Country Studies", in N. F. R. Crafts and G. Toniolo (eds.), *Economic Growth in Europe since 1945* (CUP, 1996), 576-581, with G. Toniolo.
- 154) "Catch-Up, Convergence and the Sources of Postwar European Growth", in B. van Ark and N. F. R. Crafts (eds.), *Quantitative Aspects of Europe's Postwar Growth* (CUP, 1996), 1-26, with B. van Ark.
- 155) "Europe's Golden Age: An Econometric Evaluation of Changing Trend Rates of Growth", in B. van Ark and N. F. R. Crafts (eds.), *Quantitative Aspects of Europe's Postwar Growth* (CUP, 1996), 415-431, with T. C. Mills.
- 156) "Industrial Revolutions", in A. Kuper and J. Kuper (eds.), *The Social Science Encyclopedia*, 2nd Edition (Routledge, 1996), 403.
- 157) "Britain's Productivity Growth: Comparative Performance and Future Prospects", in P. Gillespie (ed.), *Britain's European Question: the Issues for Ireland* (IEA, Dublin, 1996), 7-21.
- 158) "Macroeconomic Policies in Historical Perspective", in M Mackintosh (ed.), *Economics and Changing Economies* (Chapman and Hall, 1996), 142-184.
- 159) "Economic Growth in the 1970s" in R. Coopey and N. W. C. Woodward (eds.), *The Troubled Economy* (UCL Press, 1996), 81-105.
- 160) "Endogenous Growth: Lessons for and from Economic History" in D. Kreps and K. F. Wallis (eds.), *Advances in Economics and Econometrics: Theory and Applications*, vol. 2 (CUP, 1997), 38-78.
- 161) "Prospects for Growth in Transition Economies", in EBRD, *Transition Report 1997* (EBRD, 1997), 98-112, with C. Ruhl.
- 162) "The British Economy: Missing Out or Catching Up?", in B. Foley (ed.), *European*

- Economies Since World War II* (Macmillan, 1998), 1-24.
- 163) "The Great Boom: 1950-73", in M. Schulze (ed.), *Western Europe Since 1945: Economic and Social Change* (Longman, 1999), 42-62.
- 164) "Globalization and Growth in the Twentieth Century", in IMF, *World Economic Outlook: Supporting Studies* (Washington, 2000), 1-51.
- 165) "Historical Perspectives on Development", in G. Meier and J. Stiglitz (eds.), *Frontiers of Development Economics* (OUP, 2001), 301-334.
- 166) "Supply-Side Policy and British Relative Economic Decline", in HM Treasury, *Economic Growth and Government Policy* (London, 2001), 23-30.
- 167) "Economic Growth", in J. Mokyr (ed.), *Oxford Encyclopedia of Economic History* (OUP, 2003), vol. 2, 137-145.
- 168) "The East Asian Escape from Economic Backwardness: Retrospect and Prospect", in P. David and M. Thomas (eds.), *Economic Challenges of the 21st Century in Historical Perspective* (OUP, 2003), 209-230.
- 169) "Macroeconomic Performance and Stabilization", in G. Dawson et al. (eds.), *Economics and Economic Change* (Open University, 2003), 571-607.
- 170) "Prospects for European Economic Growth: an Historical Perspective", in Oesterreichische Nationalbank, *Fostering Economic Growth in Europe* (Vienna, 2003), 69-82.
- 171) "Globalization in History: a Geographical Perspective" in M. Bordo, A. Taylor and J. Williamson (eds.), *Globalization in Historical Perspective* (NBER, 2003), 323-364, with A. J. Venables.
- 172) "Long Run Growth", in R. Floud and P. Johnson (eds.), *The Cambridge Economic History of Britain Since 1700*, vol. 2 (CUP, 2004), 1-24.
- 173) "Precocious British Industrialization: a General Equilibrium Perspective", in L. Prados de la Escocura (ed.), *British Exceptionalism: a Unique Path to the Industrial Revolution* (CUP, 2004), 86-107, with C. K. Harley.
- 174) "Quantifying the Contribution of Technological Change to Economic Growth in Different Eras: a Review of the Evidence", in S. Heikkinen and J van Zanden (eds.), *Exploring Economic Growth* (Aksant Publishers, 2004), 205-226.
- 175) "Welfare Implications of HIV/AIDS" in M. Haacker (ed.), *The Macroeconomics of HIV/AIDS* (IMF, 2004), 182-197, with M. Haacker.
- 176) "High Quality Public Services", in D. Coyle, W. Alexander and B. Ashcroft (eds.), *New Wealth for Old Nations* (Princeton UP, 2005), 189-209.

- 177) "The World Economy in the 1990s: a Long-Run Perspective", in P. Rhode and G. Toniolo (eds.), *Understanding the 1990s: the Long-Run Perspective* (CUP, 2006), 21-42.
- 178) "Living Standards", in N. Crafts, I. Gazeley and A. Newell (eds.), *Work and Pay in Twentieth Century Britain* (OUP, 2007), 11-34.
- 179) "The British Economy in the Twentieth Century", in F. Carnevali and J-M. Strange (eds.), *20th Century Britain: Economic, Social and Cultural Change* (Pearson, 2007), 7-25.
- 180) "Industrial Policy", in A. Seldon (ed.), *Blair's Britain 1994-2007* (CUP, 2007), 273-287.
- 181) "Microeconomic Policy and the Productivity Agenda", in V. Uberoi, A. Coutts, I. McLean and D. Halpern (eds.), *Options for a New Britain* (Palgrave Macmillan, 2009), 16-32.
- 182) "The Celtic Tiger in Historical and International Perspective", in M. Mulreany (ed.), *Economic Development 50 Years On, 1958-2008* (IPA, Dublin, 2009), 64-76.
- 183) "Aggregate Growth, 1950-2005", in S. Broadberry and K. O'Rourke (eds.), *Unifying the European Experience: an Economic History of Modern Europe* (CUP, forthcoming), with G. Toniolo.
- 184) "Les Trente Glorieuses: from the Marshall Plan to the Oil Crisis", in D. Stone (ed.), *The Oxford Handbook on Postwar European History* (OUP, forthcoming), with G. Toniolo.

### **Unpublished Papers**

- "What Creates Multi-Factor Productivity ?", paper for ECB conference on "The Creation of Economic and Corporate Wealth in a Dynamic Economy" (January, 2008).
- "European Economic Growth, 1950-2005: an Overview", CEPR Discussion Paper No. 6863 (2008) with G. Toniolo.
- "Did Early Utility Regulation Work? An Investigation of British Railway Regulation prior to the First World War" (July, 2008) with T. Leunig.
- "Making Sense of the Manufacturing Belt: Determinants of US Industrial Location, 1880-1920" (July, 2009) with A. Klein.
- "The Price-Cost Mark-Up in the UK: a Long-Run Perspective" (August, 2009) with T. C. Mills.
- "Openness, Protectionism and Britain's Productivity Performance Over the Long Run" (September, 2009) with S. Broadberry.
- "Learning from Britain's Successful Sectors: Overview and Policy Implications" (January 2010).

### **Invited Public Lectures**

"Productivity Growth in Britain over the Long Run", Tenth Roll Lecture, University of Southampton, 1991.

"Adjusting from War to Peace in 1940s Britain", Dublin Economic Workshop Lecture, Seventh Irish Economic Association Conference, Galway, 1993.

"The Golden Age of Economic Growth in Western Europe, 1950-73", Tawney Memorial Lecture, Economic History Society Conference, Nottingham, 1994.

"Endogenous Growth: Lessons for and from Economic History", Seventh World Congress of the Econometrics Society, Tokyo, 1995.

"Why Was Productivity Slow to Grow during the Industrial Revolution?", British Association for the Advancement of Science, Newcastle, 1995.

"Economic Growth and Full Employment: What are the Lessons of Economic History?", Finnish Historical Society/SITRA, Helsinki, 1996.

"Comparisons of Living Standards", World Congress of Cliometrics, Munich, 1997.

"The Conservative Governments' Economic Record: An End of Term Report", The Wincott Lecture, London, 1997.

"Economic Growth in Asia and Europe: Comparisons, Contrasts and Some Lessons", Annual Lecture, Centre for International Business Studies, South Bank University, 1998.

"The New Technology: A Triumph of Hope Over Experience?", Merrill Lynch/Imperial College Lecture, London, 1999.

"Globalization and Growth in the 20th Century", Fundacion BBVA, Madrid, 2001.

"Globalization and Economic Growth: an Historical Perspective", British Academy Centenary Conference, 2002.

"Is Economic Growth Good for Us?", 2002 Royal Economic Society Public Lecture, Glasgow, Manchester and London, 2002.

"Globalization and Growth: an Historical Perspective", Tore Browaldh Lecture, University of Gothenburg, 2003.

"Fifty Years of Economic Growth in Western Europe: No Longer Catching Up but Falling Behind?", Abramovitz Lecture on Economic Growth, Stanford University, 2003.

"High Quality Public Services for Scotland", the Allander Series, Glasgow, 2004.

- "The Economic Impact of ICT: a Perspective from the Age of Steam", Esmee Fairbairn Lecture, University of Lancaster, 2004.
- "Productivity at the Periphery: What Can Wales Do To Compete?" Sixth Annual Julian Hodge Institute of Applied Macroeconomics Lecture, Cardiff, 2005.
- "Cornucopia? What Has Technological Change Really Meant for British Living Standards ?", Dixon Lecture, University of York, 2005.
- "What Are the Implications of the 'Death of Distance' for European Workers ?", British Academy/ESRC Conference, *Europe: Addressing the Socio-Economic Agenda*, London, 2005.
- "The First Industrial Revolution: Still a Puzzle After All These Years", University of Glasgow Department of Economic & Social History Golden Jubilee Celebrations, 2007
- "New Economic History and New Economic Geography", Seventh European Historical Economics Conference, Lund, 2007.
- "Growth Accounting: an Historical Perspective", EU KLEMS Final Conference, Groningen, 2008.
- "The Changing Place of Britain in the World Economy: a Long-Term Perspective", Leverhulme Globalisation Lecture, University of Nottingham, 2008.
- "British Relative Economic Decline Revisited", Economic History Society Conference, Warwick, 2009.
- "Cliometrics and Technological Change", Thirteenth Annual Conference of the European Society for the History of Economic Thought, Thessaloniki, 2009.
- "The Contribution of New Technology to Economic Growth: Lessons from Economic History", Figuerola Lecture, Madrid, 2009.
- "From the 18th to the 21st Centuries: a Perspective on 250 Years of British Economic Growth", Ellen McArthur Lectures, University of Cambridge, November 2009.

#### **Recent Conference Presentations (last 5 years)**

- CEPR/ESF, *The Long Run Growth and Development of the World Economy*, Venice, 2005.
- 43rd Annual Cliometrics Conference, Lake Tahoe, California, 2005.
- Richmond Events, *The Communications Directors' Forum*, 2005.
- Lovells Partnership Conference, Cannes, France, 2005.
- UNIDO, Launch of *Industrial Development Report 2005*, Vienna, 2005.

Welsh Assembly Economic Research Unit, *Regional Productivity Differences*, Cardiff, 2006.

AIM/BJIR, *Productivity Day*, London, 2006.

Cabinet Office, Better Regulation Executive Seminar on the Impact of Regulation on Growth and Productivity, London, 2007.

Royal Economic Society Annual Conference, Warwick, 2007.

Department for Transport, Eddington Analytical Seminar, London, 2007.

CEPR RTN Workshop, *From Stagnation to Growth*, EUI Florence, 2007.

ESF Globalizing Europe Network, *Historical Geography of Europe 1900-2000*, Universidad Carlos III, Madrid, 2007,

CEPR RTN 3rd Summer Symposium, *Unifying the European Experience: Historical Lessons of Pan-European Development*, CEPR, London, 2007

European Central Bank, Banque de France and The Conference Board, *The Creation of Economic and Corporate Wealth in a Dynamic Economy*, Frankfurt, 2008.

Economic History Society Annual Conference, Nottingham, 2008.

20th Annual History of Political Economy Conference, *Robert Solow and the Development of Growth Economics*, Duke University, 2008.

Mercatus Center, *The Enlightened Economy*, George Mason University, 2008.

Institute of Public Administration Conference, *Economic Development – 50 Years On*, Dublin, 2008.

Grosvenor Fund Management Seminar, *The Real Estate World in 2020*, London, 2008.

OECD Workshop, *Indicators of Regulatory Management Systems*, London, 2009.

Festschrift Conference in Honour of Forrest Capie, Cass Business School, 2009.

## **Teaching**

### **a) Lecture Courses for Undergraduates.**

Debating the Industrial Revolution; The British Economy in the Twentieth Century; European Economic History, 1815-1913; International Economic System Since 1918; The European Economies in a Changing World; Quantitative Methods for Economic Historians; Applied Economics of the UK Economy; Introductory Macroeconomics; The World Economy: History and Theory; Making of Economic Policy.

***b) Lecture Courses for Graduate Students***

Historical Analysis of Economic Change; International Economic Institutions Since World War I; Modern Economic History; European Economic History; Topics in Quantitative Economic History.

***c) Adult Education.***

Tutor, Oxford University Business Summer School, 1979, 1984-8.

Senior Tutor, Oxford University Business Summer School, 1980-2.

Occasional lectures at the Civil Service College, 1978-2001.

Associate Fellow and occasional presentations to executive courses, Templeton College, Oxford, 1979-2003.

Occasional lectures at the London Business School, 1993-2005.

Occasional lectures for Oxford University Business Economics Programme, 1997-2007.

Microeconomics Level 2 Module 2 for HM Treasury Staff Development Programme, 1997-2005.

Lectures for TRIUM Global EMBA, 2003-8.

**Administration**

Domestic Bursar, University College, Oxford, 1978-82 and 1986.

Chair, Department of Economics, University of Warwick, 1991-4.

Member, Promotions Committee, University of Warwick, 1990-4.

Member, Research Committee, University of Warwick, 1994-5.

Member, Fellowship Committee, University of Warwick, 1994-5.

Convenor, Department of Economic History, LSE, 1996-9.

Member, Estates Strategy Committee, LSE, 2002-5.

Chair, Section S2, British Academy, 2006-

Associate Chair, Department of Economics, University of Warwick, 2006-

**Other Professional Activities**

President, Economic History Society, 2004-7.

Editor, *Economic History Review*, 1999-2004.

Research Fellow, Centre for Economic Policy Research, 1985-.

Programme Director, Human Resources Since 1900, Centre for Economic Policy Research, 1988-91.

Visiting Royal Economic Society Lecturer, University of Lancaster, 1993.

Visiting Lecturer, NAKE Course for Dutch Economics Ph. D Students, Groningen, 1997.

Member, Editorial Board, *Explorations in Economic History*, 1979-86.

Member, Editorial Board, *Bulletin of Economic Research*, 1986-88; Associate Editor, 1989-2000.

Member, Editorial Board, *Economica*, 1996-

Member, Editorial Board, *European Review of Economic History*, 1997-

Member, Editorial Board, *Cliometrica*, 2006-

Member, Panel for *Economic Policy*, 1990-1.

Member, Council of Royal Economic Society, 1991-3 and 2009-.

Member, Council of Economic History Society, 1992-8.

Member, Academic Advisory Panel, Institute of Economic Affairs, 1993-

Member, Commissioning Committee, ESRC Global Economic Institutions Initiative, 1993.

Member, Steering Committee, ESRC Global Economic Institutions Initiative, 1994-9.

Member, Standing Advisory Committee on Trunk Road Assessment, Department of Transport, 1996-9.

Member, Academic Friends of the Eddington Report, HM Treasury/Department for Transport, 2005-7.

Member, Scottish Executive Economic Consultants Group, 2006-7.

Member, ESRC UK Economics Bench-Marking Review Steering Group, 2007-8.

Consultant on Europe 2000 Project for DG XVI, European Commission, 1991.

Consultant on *1997 Transition Report*, European Bank for Reconstruction and Development.

Consultant on *World Economic Outlook*, 1998, 2000 and 2001, International Monetary Fund.

Consultant on *2009 World Development Report*, World Bank.

Consultant to HM Treasury on productivity agenda, 2001-2.

Consultant to Office of Fair Trading on empirical indicators for market investigations, 2004 and on competition and productivity performance, 2006.

Consultant to HM Treasury on transport and economic growth (Eddington Report), 2005.

Consultancy for BP Amoco, European Commission DG III, National Westminster Bank, Ofwat, Regional Railways North West, Shadow Strategic Rail Authority, Unilever.

Expert Witness in "The Thatcher Years: Miracle or Mirage?", London Weekend Television, April, 1989.

Participant, Keynote Controversies, "The Battle for Affluence", Battle of Ideas, 2006.

Orator, presentation of Honorary Doctorate to Peter Mathias, University of Warwick, 1995.

Regular Contributor to *Management Today*, 1987-90.

**Book Reviews** for Agricultural History Review, Albion, Australian Economic History Review, Business History, Economic Affairs, Economic History Review, Economic Journal, Economica, Education Economics, EH.Net, English Historical Review, Finance and Development, History, International History Review, International Journal of Industrial Organization, Journal of Economic History, Journal of Economic Inequality, Journal of Economic Literature, Journal of Historical Geography, Journal of Interdisciplinary History, Management Today, Population Studies, Regional Studies, Scandinavian Economic History Review, Social History, The Business Economist, The Guardian, Times Higher Educational Supplement, Times Literary Supplement, World Economy.

**Referee** for Advances in Agricultural Economic History, Agricultural History Review, British Politics, Bulletin of Economic Research, Cambridge Journal of Economics, Cliometrica, Economic Change and Restructuring, Economic Development and Cultural Change, Economic History Review, Economic Journal, Economica, Economics of Transition, European Economic Review, European Review of Economic History, Explorations in Economic History, German Economic Review, Historical Methods, History of Political Economy, Industrial and Corporate Change, Journal of Development Studies, Journal of Economic History, Journal of Economic Literature, Journal of Political Economy, Journal of Population Economics, Journal of Public Economics, Manchester School, Oxford Bulletin of Economics and Statistics, Oxford Economic Papers, Population and Development Review, Population Studies, Regional Studies, Research in Economic History, Review of Economic Studies, Review of Economics and Statistics, Review of Income and Wealth, Revista de Historia Economica, Scottish Journal of Political Economy, Structural Change and Economic Dynamics, World Bank Economic Review, World Development, World Economy.