

CURRICULUM VITAE

NAME

Partha Sarathi DASGUPTA

DATE OF BIRTH

November 17, 1942

EDUCATION

B.Sc. (Hons.) in Physics, University of Delhi, 1962.

B.A. (Hons.) in Mathematics, University of Cambridge, 1965.

Ph.D. in Economics, University of Cambridge, 1968.

AWARDS and HONOURS

Stevenson Prize, University of Cambridge, 1967.

Fellow, Econometric Society, 1975.

Fellow, British Academy, 1989.

Foreign Honorary Member, American Academy of Arts and Sciences, 1991.

Foreign Member, Royal Swedish Academy of Sciences, 1991.

Honorary Fellow, London School of Economics, 1994.

Honorary Member, American Economic Association, 1997.

Member, Pontifical Academy of Social Sciences, 1998.

President, European Economic Association, 1999.

President, Royal Economic Society, 1998-2001.

Doctor, Honoris Causa: Wageningen University, 2000; Catholic University of Louvain, 2007.

Foreign Associate, US National Academy of Sciences, 2001.

Fellow, Third World Academy of Sciences, 2001.

Knight Bachelor (Her Majesty Queen Elizabeth II's Birthday Honours List, 2002, for "services to economics").

Volvo Environment Prize 2002 (joint with K.-G. Mäler).

Co-recipient (with G.M. Heal) of the Association of Environmental and Resource Economists "Publication of Enduring Quality Award 2003" for *Economic Theory and Exhaustible Resources* (Cambridge University Press, 1979).

Fellow, Royal Society, 2004.

International Society for Ecological Economics Kenneth E. Boulding Memorial Award (Biennial), 2004 (joint with K.-G. Mäler).

Foreign Member, American Philosophical Society, 2005.

President, Section F (Economics), BA (British Association for the Advancement of Science) Festival of Science, 2006.

John Kenneth Galbraith Award 2007, American Agricultural Economics Association.

EMPLOYMENT

Research Fellow, Trinity Hall, Cambridge, 1968-71.

Supernumery Fellow, Trinity Hall, Cambridge, 1971-74.

Visiting Assistant Professor, Carnegie-Mellon University, 1968-69.

Visiting Fellow, Delhi School of Economics, 1970-71.

Lecturer, London School of Economics, 1971-75.

Visiting Associate Professor, Stanford University, 1974-75.

Reader, London School of Economics, 1975-78.

Visiting Professor, Jawaharlal Nehru University, Autumn 1978.

Professor of Economics, London School of Economics, 1978- (December) 84.

Ford Visiting Professor, Institute of Economic Growth, University of Delhi, Autumn 1981.

Visiting Professor, Stanford University, 1983-84.

Visiting Professor, Harvard University, Spring 1987.

Visiting Professor, Princeton University, Spring 1988.

Professor of Economics, Professor of Philosophy, and Director of the Programme in Ethics in Society, Stanford University, 1989-1992.

BP Visiting Professor, London School of Economics, Autumn 2003.

Professor of Economics (Frank Ramsey Professor of Economics, since 1994), University of Cambridge and Fellow of St. John's College, Cambridge, (January) 1985-. Chairman of the Faculty of Economics & Politics, University of Cambridge, January 1997 - December 2001.

PROFESSIONAL ACTIVITIES

Member of Council, Econometric Society, 1984-90.

Member of Council, European Society for Population Economics, 1987-91.

Member of Council, Royal Economic Society, 1988-93.

Member of Council, European Economic Association, 1989-94.

Associate Editor, *Journal of Development Economics*, 1972-76.

Member, Editorial Board, *Economica*, 1975-93.

Associate Editor, *Social Choice and Welfare*, 1984-1994.

Associate Editor, *Journal of Environmental Economics and Management*, 1985-1989.

Member, Editorial Board, *Review of Economic Studies*, 1972-82.

Member, Editorial Board, *Journal of Political Philosophy*, 1993-.

Member, Policy Board, *Environment and Development Economics*, 1996-.

Member, Panel of Experts on Environmental Health, World Health Organization, 1975-85.

Programme Director for Applied Economic Theory and Econometrics, Centre for Public Policy Research, London, 1984-86.

Research Fellow, Centre for Public Policy Research, London, 1983-93.

Research Adviser, UNU/World Institute for Development Economics Research, Helsinki, 1988-93.

Visiting Fellow, Santory-Toyota International Centre for Economics and Related Disciplines, London School of Economics, 1988-.

Chairman of the Board, Beijer International Institute of Ecological Economics, Royal Swedish Academy of Sciences, Stockholm, 1991-97.

Member, Scientific Board, Santa Fe Institute, 1991-96.

Senior Research Fellow, Institute for Policy Reform, Washington, D.C., 1992-94.

Member, Advisory Council to the Vice President for Environmentally Sustainable Development, World Bank, Washington, D.C., 1993-1998.

Member, Advisory Committee on the Environment (ACE), International Council of Scientific Unions, 1996-2001.

University Fellow, Resources for the Future, Washington, DC, 1997-.

Member, Scientific Board, South Asian Network of Development and Environmental Economists (SANDEE), Kathmandu, 1998-.

Member, Scientific Board, Resource Accounting Network for Southern Africa (RANESA), Pretoria, 1998-.

Member, Academic Advisory Board, Institute for Advanced Study, Budapest, 1999-2003.

Member, External Advisory Council, World Bank Institute, Washington, D.C., 1999-.

Member at Large, Millennium Ecosystem Assessment (MEA) Board, 2000-2005.

Member, Millennium Ecosystem Assessment Panel (MEA), 2000-2005.

Member, External Advisory Board, The Earth Institute, Columbia University, 2002-.

Co-Director (with C. Carraro, S. Levin, K.-G. Mäler, and A. de Zeeuwe), Programme in Ecological and Environmental Economics, Abdus Salam International Centre for Theoretical Physics, Trieste, 2002-.

Member, Coordinating Committee on Global Change, US National Academies, 2003-2005.

Member, Advisory Group to the Consortium on Science and Technology for Sustainable Development, 2003-2005.

Member, Advisory Board, DIVERSITAS, 2003-.

Associate Editor, *Journal of the European Economic Association*, 2003-2004.

Member, Sectional Committee 10, Royal Society, 2004-.

Member, Board and Executive Committee, International Institute for Environment and Development, London, 2005-2006.

Member, Editorial Board, *Proceedings of the National Academy of Sciences*, 2005-.

Member, AAAS (American Association for the Advancement of Science) Annual Meeting Scientific Program Committee, 2006-.

Member, Indian Council for Sustainable Development, 2007-.

SPECIAL LECTURES

Shell Lecture, City University, London, 1985.

E.S. Woodward Memorial Lecture, University of British Columbia, 1986.

Darwin College Lecture, University of Cambridge, 1987.

Commencement Day Address, Export-Import Bank of India, Bombay, 1987.

Stevenson Lecture, University of Glasgow, 1989.

Frank Paish Memorial Lecture, Royal Economic Society and Association of University Teachers of Economics, 1989 (Swansey).

Walras-Bowley Lecture, Econometric Society, 1989 (Ann Arbor, Michigan).

Coromandel Lecture, New Delhi, 1990.

Crafoord Lecture, Lund University, 1991.

Moffat Lecture, Princeton University, 1993.

Sidney Ball Lecture, University of Oxford, 1993.

Keynes Lecture, British Academy, 1995.

P.N. Mathur Memorial Lecture, University of Wales at Aberystwyth, 1997.

Kenneth J. Arrow Lectures, Stanford University, 1997.

St. John's College Lecture, University of Hull, 1997.

45th Anniversary Lecture, Resources for the Future, Washington, D.C., 1997.

Yrjö Reenpää Lecture, Helsinki, 1998.

Gaston Eyskens Lectures, Catholic University of Leuven, 1998.

Mullin Lecture, University of Maryland, Baltimore County, 2000.

Tanner Lecture, University of Michigan, Ann Arbor, 2000.

Wiegand Lecture, Duke University, 2000.

ESRC 12th Annual Lecture, London, 2001.

Plenary Lecture, World Congress of Environmental and Resource Economists, Monterey (California), 2002.

CIMMYT Distinguished Economist Lecture, Mexico City, 2003.

St. Andrews Prize Lecture, Royal Institution, London, 2003.

Adam Klug Memorial Lecture, Ben-Gurion University of the Negev, 2004.

Sibthorp Lecture, London, 2004.

R.C. Mills Lecture, Australian Conference of Economists, University of Sydney, 2004.

Gemilli Lecture, Catholic University, Milan, 2004.

Red Cross Lecture, Cambridge, 2005.

Spring Lecture, Stanford Institute for the Environment, Stanford University, 2005.

Yan Fu Memorial Lecture, China Center for Economic Research, Peking University, 2005.

Bingham Lecture, Research Triangle Institute, Durham (NC), 2006.

Topical Lecture, AAAS Conference, St. Louis, 2006.

BES Lecture, British Ecological Society Annual Conference, Oxford, 2006.

PUBLICATIONS

BOOKS

(1) *Guidelines for Project Evaluation* (with S.A. Marglin and A.K. Sen), United Nations (New York), 1972, pp. 1-383.

(2) *Economic Theory and Exhaustible Resources* (with G.M. Heal), James Nisbet and Cambridge University Press, 1979, pp.1-501. Recipient of the Association of Environmental and Resource Economists "Publication of Enduring Quality Award 2003".

(3) *The Control of Resources*, Basil Blackwell (Oxford), Harvard University Press (Cambridge, Mass.) and Oxford University Press (Delhi), 1982, pp. 1-212.

(4) *Environmental Decision-Making* (co-editor with Y. Ahmad and K.-G. Mäler), Hodder and Stoughton (London), 1984, pp.1-358.

(5) *Economic Organizations as Games* (co-editor with K. Binmore), Basil Blackwell (Oxford), 1986, pp.1-219.

(6) *The Economics of Bargaining* (co-editor with K. Binmore), Basil Blackwell (Oxford), 1987, pp.1-260.

(7) *Economic Policy and Technological Performance* (co-editor with P. Stoneman), Cambridge University Press, 1987, pp.1-243.

(8) *Issues in Contemporary Economics: Policy and Development* (editor), Vol. 100 of the publications of the International Economic Association, Macmillan (London), 1991, pp. 1-399.

(9) *Economic Analysis of Markets and Games* (co-editor with D. Gale, O. Hart and E. Maskin), MIT Press (Cambridge, Mass.), 1992, pp. 1-634.

(10) *An Inquiry into Well-Being and Destitution*, Clarendon Press (Oxford), 1993, pp. 1-661.

(11) *The Environment and Emerging Development Issues*, Vols. I and II (co-editor with K.-G. Mäler), Clarendon Press (Oxford), 1997, pp. 1-255 and pp. 259-593.

(12) *The Economics of Transnational Commons* (co-editor with K.-G. Mäler and A. Vercelli), Clarendon Press (Oxford), 1997, pp. 1-316.

(13) *Creation and Transfer of Knowledge* (co-editor with C. Barba Navaretti, K.-G. Mäler and D. Siniscalco), Springer (Berlin), 1998, pp. 1-311.

(14) *Social Capital: A Multifaceted Perspective* (co-editor with Ismail Serageldin), World Bank (Washington, DC), 2000, pp. 1-424.

(15) *Human Well-Being and the Natural Environment*, Oxford University Press (Oxford), 2001, pp. 1-305. Revised edition, with new Appendix (paperback), March 2004. Italian Translation, by Stefano Galli: *Benessere umano e ambiente naturale* (Milano: V&P Universita), 2004.

(16) *Economic Theory for the Environment: Essays in Honour of Karl-Göran Mäler* (co-editor with B. Kriström and K.-G. Löfgren), Edward Elgar (Cheltenham), 2002, pp. 1-344.

(17) *The Economics of Non-Convex Ecosystems* (co-editor with Karl-Göran Mäler), Kluwer Academic Publishers, 2003.

(18) *Ecosystems and Human Well-Being: Synthesis* (with W.V. Reid, H.A. Mooney, A. Cropper *et al.*), World Resources Institute (Washington, DC: Island Press), 2005, pp. 1-137.

(19) *Economics: A Very Short Introduction* (Oxford: Oxford University Press), 2007, pp. 1-172.

ARTICLES

Capital and Optimum Growth Theory

(1) "Optimal Growth when Capital is Non-Transferable", *Review of Economic Studies*, 1969, 36(1), 77-88.

(2) "On the Optimum Rate of Accumulation in a Labour Surplus Economy", *Indian Economic Journal*, 1969, 16(3), 279-311.

(3) "The Optimal Depletion of Exhaustible Resources" (with G.M. Heal), *Review of Economic Studies*, 1974 (Special Number), 3-28. Reprinted in G.M. Heal, ed., *The International Library of Critical Writings in Economics: The Economics of Exhaustible Resources* (Cheltenham: Edward Elgar), 1993 (pp. 56-81); in R.U. Ayers, K.J. Button, and P. Nijkamp, eds., *Global Aspects of the Environment* (Cheltenham: Edward Elgar), 1999; and in J. Scheraga, ed., *Discounting and Environmental Policy* (Aldershot, Hampshire: Ashgate), 2003.

Taxation and Trade

(4) "Differential Taxation, Public Goods and Economic Efficiency" (with J.E. Stiglitz), *Review of Economic Studies*, Symposium on Public Finance, 1971, 38(2), 151-74. Reprinted in J. Scheraga, ed., *Discounting and Environmental Policy* (Aldershot: Ashgate), 2003.

(5) "On Optimal Taxation and Public Production" (with J.E. Stiglitz), *Review of Economic Studies*, 1972, 39(1), 87-103.

(6) "Benefit Cost Analysis and Trade Policies" (with JE Stiglitz), *Journal of Political Economy*, 1974, 83(1), 1-33.

(7) "Tariffs versus Quotas as Revenue Raising Devices under Uncertainty" (with J.E. Stiglitz), *American Economic Review*, 1977, 67(5), 975-81.

(8) "The Taxation of Exhaustible Resources" (with G.M. Heal and J.E. Stiglitz), in G. Hughes and G.M. Heal, eds., *Public Policy and the Tax System: Essays in Honour of James Meade*, Allen and Unwin (London), 1981, (pp.150-72). Reprinted in G.M. Heal, ed., *The International Library of Critical Writings*

in *Economics: The Economics of Exhaustible Resources* (Cheltenham, UK: Edward Elgar), 1993 (pp. 219-244).

Development Planning

(9) "An Analysis of Two Approaches to Project Evaluation in Developing Countries", *Industrialization and Productivity* (UNIDO), 1970, Bulletin No. 15, 5-14.

(10) "A Comparative Analysis of the UNIDO Guidelines and the OECD Manual", *Bulletin of the Oxford University Institute of Economics and Statistics*, 1972, 34(1), 33-51.

(11) "The Social Value of Investment and the Shadow Wage Rate", in H. Schwartz and R. Berney, eds., *Social and Economic Dimensions of Project Evaluation*, being a Proceedings of a Symposium on the Use of Socio-Economic Investment Criteria in Project Evaluation (Washington, DC: Inter-American Development Bank), 1977 (pp. 113-24).

(12) "Project Appraisal, Foreign Exchange Constraints and Shadow Exchange Rates", in R. Stone and W. Peterson, eds., *Econometric Contributions to Public Policy*, being a Proceedings of a Round Table Conference held by the International Economic Association, (London: Macmillan Press), 1978 (pp. 249-67).

(13) "On Appropriate Technology", in A. Robinson, ed., *Appropriate Technologies for Third World Development*, being a Proceedings of a Round Table Conference held by the International Economic Association (London: Macmillan Press), 1979 (pp. 12-22).

(14) "Project Appraisal and Foreign Exchange Constraints" (with C. Blitzer and J.E. Stiglitz), *Economic Journal*, 1981, 91(1), 58-74. Reprinted in, A.C. Harberger and G.P. Jenkins, eds., *The International Library of Critical Writings in Economics: Cost-Benefit Analysis* (Cheltenham: Edward Elgar), 2002.

Welfare, Justice and the Theory of the State

(15) "Utilitarianism, Information and Rights", in A. Sen and B. Williams, eds., *Utilitarianism and Beyond* (Cambridge: Cambridge University Press), 1982 (pp. 199-218). Reprinted in R.N. Stichler and R. Hauptman, eds., *Ethics, Information and Technology: Readings* (Jefferson, NC: McFarland), 1998, pp. 131-51; and in G. Brosio and H.M. Hochman, eds., *The International Library of Critical Writings in Economics: Economic Justice* (Cheltenham, UK: Edward Elgar), 1998.

(16) "Positive Freedom, Markets and the Welfare State", *Oxford Review of Economic Policy*, 1986, 2(4), 25-36. Reprinted in D Helm, ed., *The Economic Borders of the State* (Oxford: Oxford University Press), 1989.

(17) "Power and Control in the Good Polity", in A. Hamlin and P. Pettit, eds., *The Good Polity* (Oxford: Basil Blackwell), 1989 (pp. 169-90).

(18) "Democracy and Other Goods" (with E.S. Maskin), in I. Shapiro and C. Hacker-Cordon ed., *Democracy's Value* (Cambridge: Cambridge University Press), 1999 (pp. 69-90).

(19) "Modern Economics and the Idea of Citizenship", in *Social and Ethical Aspects of Economics: A Colloquium at the Vatican* (Vatican City: Pontifical Council for Justice and Peace), 1992.

(20) "The Robustness of Majority Rule" (with E.S. Maskin). Mimeo., Department of Economics, University of Cambridge, 2007.

(21) "The Fairest Vote of All" (with E.S. Maskin), *Scientific American*, 2004, 290(3), pp. 92-97.

Time and Future Generations

(22) "On Some Problems Arising from Professor Rawls' Conception of Distributive Justice", *Theory and Decision*, 1974, 4(2), 325-44.

(23) "On Some Alternative Criteria for Justice Between Generations", *Journal of Public Economics*, 1974, 3(4), 405-23. Reprinted in J. Scheraga, ed., *Discounting and Environmental Policy* (Aldershot: Ashgate), 2003.

(24) "Fairness between Generations and the Social Rate of Discount", *Resources Policy*, 1978, 4(3), 172-78.

(25) "Ethics, Future Generations, and the Market", in H. Siebert ed., *The Ethical Foundations of the Market Economy* (Tubingen: JCB Mohr (Paul Siebeck)), 1994 (pp. 179-216).

(26) "Resource Depletion, Research and Development and the Social Rate of Discount", in R. Lind, ed., *Discounting for Time and Risk in Energy Policy* (Baltimore: Johns Hopkins University Press), 1982 (pp. 273-305). Reprinted in R. Layard and S. Glaister, eds., *Cost-Benefit Analysis* (Cambridge: Cambridge University Press), 1994.

(27) "Uncertainty and Hyperbolic Discounting" (with E.S. Maskin), *American Economic Review*, 2005, 95(4), 1290-1299.

(28) "Three Conceptions of Intergenerational Justice", in H. Lillehammer and D.H. Mellor, eds., *Ramsey's Legacy* (Oxford: Clarendon Press), 2005, pp. 1-182 (pp. 149-169).

(29) "Intergenerational Equity, Social Discount Rates, and Global Warming" (with S. Barrett and K.-G. Mäler), in P.R. Portney and J.P. Weyant, eds., *Discounting and Intergenerational Equity* (Washington, DC: Resources for the Future), 1999 (pp 51-78).

(30) "Discounting Ecosystem Losses", *Our Planet*, 2005, 16(2: September), 14-15.

(31) "Comments on the Stern Review's Economics of Climate Change", *National Institute Economic Review*, 2007, No. 199, 4-7.

Economic Institutions and Social Capital

(32) "Trust as a Commodity", in D Gambetta, ed., *Trust: Making and Breaking Cooperative Relations* (Oxford: Basil Blackwell), 1988 (pp. 49-72).

(33) "Economic Progress and the Idea of Social Capital", in P. Dasgupta and I. Serageldin, eds., *Social Capital: A Multifaceted Perspective* (Washington, DC: World Bank), 2000 (pp. 325-424).

(34) "Social Capital and Economic Performance: Analytics", in E. Ostrom and T.K. Ahn, eds., *Critical Studies in Economic Institutions: Foundations of Social Capital* (Cheltenham: Edward Elgar), 2003 (pp. 309-339).

(35) "The Economics of Social Capital", (A.C. Mills Memorial Lecture, Conference of Australian Economists, 2004, University of Sydney), *The Economic Record*, 2005, 81(255: Supplement), S2-S21.

(36) "Common Property Resources", in P. Demeny and G. McNicoll, eds., *Encyclopedia of Population*, Vol. 1 (Farmington Hills, MI: MacMillan), 2003, pp. 157-161.

(37) "Common Property Resources: Economic Analytics", *Economic and Political Weekly*, 2005, 40(16) (April 16-22), 1610-1622.

(38) "Social Capital", in Larry Blume and Stephen Durlauf, eds., *The New Palgrave Dictionary of Economics*, 2nd edition (Basingstoke, Hampshire: Palgrave MacMillan), forthcoming, 2007.

Measurement of Well-Being

(39) "Notes on the Measurement of Inequality" (with A. Sen and D.A. Starrett), *Journal of Economic Theory*, 1973, 6(2), 180-187. Reprinted in F.A. Cowell, ed., *The International Library of Critical Writings in Economics: The Economics of Poverty and Inequality* (Cheltenham: Edward Elgar), 2003.

(40) "Well-Being and the Extent of its Realization in Poor Countries", *Economic Journal*, 1990 (Supplement), 100, 1-32.

(41) "Poverty and Living Standards", in P. Dasgupta, D. Gale, O. Hart and E. Maskin eds., *Economic Analysis of Markets and Games* (Cambridge, MA: MIT Press), 1992 (pp. 621-34).

(42) "On Measuring the Quality of Life" (with M. Weale), *World Development*, 1992, 20(1), 119-131.

(43) "Well-Being in Poor Countries", *Economic and Political Weekly*, 1990, 25(31), 1713-20. Reprinted in *Management and Government*, 1990, 21(4), 133-150.

(44) "Optimal Development and the Idea of Net National Product", in I. Goldin and A. Winter eds., *Sustainable Economic Development: Domestic and International Policy* (Cambridge: Cambridge University Press), 1994 (pp. 111-42).

(45) "Current Issues in Resource Accounting" (with B. Kriström and K.-G. Mäler), in P.-O. Johansson *et al.*, eds., *Current Issues in Environmental Economics* (Manchester: Manchester University Press), 1995 (pp. 117-52).

(46) "The Environment and Net National Product" (with B. Kriström and K.-G. Mäler), in P. Dasgupta and K.-G. Mäler, eds., *The Environment and Emerging Development Issues* (Oxford: Clarendon Press), 1997 (pp. 129-39).

(47) "Valuation and Evaluation", in O. Feinstein and R. Picciotto, eds., *Evaluation and Poverty Reduction* (Washington, D.C.: World Bank), 2000 (pp. 19-35).

(48) "Wealth and Welfare", in P.J. Hammond and G. Myles, eds., *Incentives, Organization, and Public Economics: Papers in Honour of Sir James A. Mirrlees* (Oxford: Clarendon Press), 2000.

(49) "Valuing Objects and Evaluating Policies in Imperfect Economies", *Economic Journal*, 2001, 111 (May), 1-29.

Population and Well-Being

(50) "On the Concept of Optimum Population", *Review of Economic Studies*, 1969, 36(3), 295-318. Reprinted in R.U. Ayers, K.J. Button, and P. Nijkamp, eds., *Global Aspects of the Environment* (Cheltenham: Edward Elgar), 1999.

(51) "On Optimum Population Size", in A. Mitra, ed., *Economic Theory and Planning: Essays in Honour of A.K. Dasgupta* (Delhi: Oxford University Press), 1974 (pp. 109-33).

(52) "The Ethical Foundations of Population Policies", in D. Gale Johnson and R. Lee, eds., *Population Growth and Economic Development: Issues and Evidence* (Madison: University of Wisconsin Press), 1987 (pp. 631-60).

(53) "Lives and Well-Being", *Social Choice and Welfare*, 1988, 5(2&3), 103-26.

(54) "Population Size and the Quality of Life", *Proceedings of the Aristotelian Society*, 1989, Supplementary Volume LXIII, 23-40.

(55) "Savings and Fertility: Ethical Issues", *Philosophy & Public Affairs*, 1994 (Spring), 99-127.

(56) "Population, Consumption and Resources: Ethical Issues", *Ecological Economics*, 1998, 24(1), 139-152.

(57) "Regarding Optimum Population", *Journal of Political Philosophy*, 2005, 13(4), 414-442. To be republished in R. Goodin and J. Fishkin, eds., *Philosophy, Politics, and Society* (Oxford: Basil Blackwell), 2008.

(58) "Doing Well By Our Children", in M.A. Glendon and P. Donati, eds., *Vanishing Youth? Solidarity with Children and Young People in an Age of Turbulence*, Pontifical Academy of Social Sciences, Acta 12 (Vatican City), 2006 (pp. 28-45).

Natural Resources

(59) "Some Recent Theoretical Explorations in the Economics of Exhaustible Resources", in H. Gottinger, ed., *Systems Approaches and Environmental Problems* (Gottingen: Vandenhoeck and Ruprecht), 1974, 193-214. Reprinted in G.M. Heal, ed., *The International Library of Critical Writings in Economics: The Economics of Exhaustible Resources* (Cheltenham: Edward Elgar), 1993 (pp. 162-183).

(60) "Resource Management in a Trading Economy" (with R. Eastwood and G.M. Heal), *Quarterly Journal of Economics*, 1978, 92(2), 297-306.

(61) "The Economics of Common Property Resources: A Dynamic Formulation of the Fisheries Problem", *Indian Economic Review*, (B.N. Ganguli Memorial Issue), 1982, 16(3), 169-97.

(62) "Resource Depletion and Research and Development" (with G.M. Heal and M. Majumdar), in M. Intriligator, ed., *Frontiers of Quantitative Economics*, Vol. IIIB (Amsterdam: North Holland), 1977 (pp. 483-506). Reprinted in G.M. Heal, ed., *The International Library of Critical Writings in Economics: The Economics of Exhaustible Resources* (Cheltenham: Edward Elgar), 1993 (pp. 90-112).

(63) "Resource Depletion under Technological Uncertainty" (with J.E. Stiglitz), *Econometrica*, 1981, 49(1), 85-104.

(64) "Environmental Management under Uncertainty", in V. Kerry Smith and J.V. Krutilla, eds., *Explorations in Natural Resource Economics* (Baltimore: Johns Hopkins University Press), 1982 (pp. 109-39).

(65) "Optimizing R&D Expenditure in the Development of Resource Substitutes" (with G.M. Heal and A. Pant), *Applied Mathematical Modelling*, 1980, 4(1), 87-94.

(66) "Resource Pricing and Technological Innovations under Oligopoly: A Theoretical Exploration", *Scandinavian Journal of Economics*, 1981, 83(2), 289-317. Reprinted in L. Mathiessen, ed., *The Impact of Rising Oil Prices on the World Economy* (London: Macmillan), 1982.

(67) "The Economics of Pollution Control" in M. Gersovitz *et al.*, eds., *The Theory and Experience of Economic Development: Essays in Honour of Sir Arthur Lewis* (London: Allen & Unwin), 1982 (pp. 252-74).

(68) "The Value of Large Resource Deposits", *Economics Letters*, 1983, 12, 369-75.

(69) "Exhaustible Resources", in L. Friday and R. Laskey, eds., *The Fragile Environment* (Cambridge: Cambridge University Press), 1989 (pp. 107-126).

(70) "Natural Resources in an Age of Substitutability", in A. Kneese and J. Sweeney eds., *Handbook of Environmental Economics*, Vol III (Amsterdam: North Holland), 1993 (pp. 1111-1130).

Economics of the Environment

(71) "The Environment as a Commodity", *Oxford Review of Economic Policy*, 1990, 6(1), 51-67. Reprinted in D. Vines and A. Stevenson, eds., *Information, Strategy and Public Policy* (Oxford: Basil Blackwell), 1991 (pp. 71-92); and in P. Blasi and S. Zamagni eds., *Man-Environment and Development: Towards a Global Approach* (Rome: Nova Spes International Foundation Press), 1991 (pp. 149-180).

(72) "The Environment and Emerging Development Issues", (with K.-G. Mäler), *Proceedings of the World Bank Annual Conference on Development Economics 1990* (Supplement to the *World Bank Economic Review* and the *World Bank Research Observer*), 1991, 101-132. Reprinted in R. Layard and S. Glaister, eds., (1994), *Cost-Benefit Analysis* (Cambridge: Cambridge University Press); and in R.U. Ayers, K.J. Button, and P. Nijkamp, eds., *Global Aspects of the Environment* (Cheltenham: Edward Elgar), 1999.

(73) "The Resource Basis of Production and Consumption: An Economic Analysis", (with K.-G. Mäler), in P. Dasgupta and K.-G. Mäler, eds., *The Environment and Emerging Development Issues* (Oxford: Clarendon Press), 1997 (pp. 1-34).

(74) "Human Well-Being and the Environmental Resource-Base", (with C. Folke and K.-G. Mäler), in K. Lindahl-Kiessling and H. Landberg, eds., *Population Growth, Economic Development and the Environment* (Oxford: Oxford University Press), 1994 (pp. 25-50).

(75) "Poverty, Institutions, and the Environmental Resource-Base", (with K.-G. Mäler) in J. Behrman and T.N. Srinivasan, eds., *Handbook of Development Economics*, Vol. III(A) (Amsterdam: North Holland), 1995 (pp. 2,371-2,463). Selected sections reprinted as, "Environmental Resources and Economic Development", in M. Lundahl and B.J. Ndulu, eds., *New Directions in Development Economics* (London: Routledge), 1996 (pp. 176-202).

(76) "Poverty and the Environment: Is There a Tradeoff?", in L. Campiglio *et al.*, eds., *The Environment After Rio* (London: Graham & Trotman/Martinus Nijhoff), 1994 (pp.249-260).

(77) "Economic Development and the Environment: Issues, Policies and the Political Economy", in M.G. Quibria, ed., *Critical Issues in Asian Development: Theories, Experiences, Policies* (Oxford: Oxford University Press for the Asian Development Bank), 1995 (pp. 160-185).

(78) "Introduction" (with K.-G. Mäler and A. Vercelli), in P. Dasgupta, K.-G. Mäler and A. Vercelli, eds., *The Economics of Transnational Commons* (Oxford: Clarendon Press), 1997 (pp. 1-16).

(79) "The Economics of the Environment", *Proceedings of the British Academy*, No. 88: 1995 Lectures and Memoirs (London: British Academy), 1996 (pp. 165-222); and *Environment and Development Economics*, 1996, 1(4), 387-428.

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