

PUBLICATIONS*

C H Llewellyn Smith

- 1) The Electrical Resistivity of Vanadium and Vanadium-Chromium Solid Solutions (with M.A. Taylor), *Physica* **28** 567 (1962).
- 2) The Decay $\eta \rightarrow \pi^- e^+ \epsilon^-$ with C Conservation, *Nuovo Cimento* **48** 834 (1967).
- 3) Note on the Decay $\eta \rightarrow \pi^+ \pi^- \gamma$, *Nuovo Cimento* **51** 554 (1967).
- 4) Low Energy $\pi \pi$ Scattering (with N.G. Antoniou), *Nuclear Physics* **B3** 277 (1967).
- 5) Some Problems in Elementary Particle Physics, Oxford University DPhil thesis (1967) (Chapter 1 contains original material on electromagnetic mass differences; Chapter 2 is based on publications 2 and 3; Chapter 3 is based on publication 4; Chapter 4 formed the basis for part of publications 6 and 8).
- 6) A Relativistic Quark Model for Mesons and the "Weisskopf-Van Royen Paradox", *Physics Letters* **28B** 335 (1968).
- 7) A Simple Derivation of the Normalization Condition for the Bound State Bethe-Salpeter Wave Function, *Nuovo Cimento* **60A** 348 (1969)
- 8) A Relativistic Formulation of the Quark Model for Mesons, *Annals of Physics* **53** 521 (1969).
- 9) Computation of K_{e4} Form Factors with Kaon PCAC and Veneziano or Weinberg Models (with R. Pascual and F.J. Yndurain), *Nuovo Cimento* **63A** 442 (1969).
- 10) $K \rightarrow 3\pi$ Spectrum and Pole Dominance (with M. Jacob and S. Pokorski), *Nuovo Cimento* **63A** 547 (1969).
- 11) High Energy Neutrino-Nucleon Scattering, Current Algebra and Partons (with D. Gross), *Nuclear Physics* **B14** 337 (1969).
- 12) Current Algebra Sum Rules Suggested by the Parton Model, *Nuclear Physics* **B17** 277 (1970).
- 13) Decays $K \rightarrow 2\pi$ in the Quark Model, *Physical Review* **D1** 3194 (1970).
- 14) An Introduction to Highly Inelastic Lepton Scattering and Related Processes (invited paper presented at the Naples meeting on Phenomenology and Models of Electromagnetic and Strong Interactions at High Energy, June 1970), *CERN - TH - 1188*.
- 15) Near Forward Neutrino Reactions on Nuclear Targets (with J.S. Bell), *Nuclear Physics* **B24** 285 (1970).
- 16) Theories of Highly Inelastic Electron Scattering (invited paper presented at the Austin meeting of the APS, November 1970) *SLAC - PUB - 843*.

* excluding book reviews, except certain essay reviews

- 17) Quasielastic Neutrino Nucleus Interactions (with J.S. Bell), *Nuclear Physics* **B28** 317 (1971).
- 18) Neutrino Reactions at Accelerator Energies, *Physics Reports* **3C** 5 (1972).
(Reprinted in *Gauge Theories and Neutrino Physics*, North Holland 1978).
- 19) Inelastic Lepton Scattering in Gluon Models, *Physical Review* **D4** 2392 (1971).
- 20) Parton Models of Inelastic Lepton Scattering, in *Springer Tracts in Modern Physics* Vol. 62 (Springer Verlag 1972).
- 21) Isospin Constraints on Semi-Inclusive Neutrino Reactions and their Hadronic Analogs (with A. Pais), *Physical Review Letters* **28** 865 (1972).
- 22) Theory of Lepton-Hadron Interactions, in *Proc. 4th International Conference on High Energy Collisions*, Oxford, 1972 (RHEL - 72.001).
- 23) Some New Isospin Bounds on Multipion Production (with A. Pais), *Physical Review* **D6** 2625 (1972).
- 24) Spontaneously Broken Gauge Theories of Weak Interactions and Heavy Leptons (with J.D. Bjorken), *Physical Review* **D7** 887 (1973).
- 25) Deep Inelastic Scattering, the Subtraction of Divergent Sum Rules and Chiral Symmetry Breaking in the Gluon Model (with R.L. Jaffe), *Physical Review* **D7** 2506 (1973).
- 26) Neutrino Physics, in *Proc. of the 2nd Tirrenia Study Week CERN/ECFA/72/4*. Vol.II (1972).
- 27) A lower Bound on Heavy Lepton Production by Neutrinos, *Nuclear Physics* **B56** 325 (1973).
- 28) An Introduction to Renormalizable Models of Weak Interactions and their Experimental Consequences, in *Proc. of the Conference on Links Between Weak Interactions and Electromagnetic Interactions*, Rutherford Lab., Feb. 1973 (REHL - RL - 73/018). (This is a condensed version of publication 30).
- 29) High Energy Behaviour and Gauge Symmetry, *Physics Letters* **46B** 233 (1973).
- 30) An Introduction to Renormalizable Models of Weak Interactions and their Experimental Consequences, in *Phenomenology of Particles at High Energy* (Academic Press 1974).
- 31) An Introduction to Renormalizable Models of Weak Interactions, in *Proc. 5th Hawaii Topical Conference* (1973), University of Hawaii Press (1974). (This consists of part I of publication 30 with some additional material, most of which also appears in publication 32).
- 32) Unified Models of Weak and Electromagnetic Interactions, in *Proc. 6th International Conference on Electron and Photon Interactions at High Energies* (North Holland 1974).
- 33) Physics with Electron-Proton Colliding Beams, in *Proc. of the Seminar on e-p and $\bar{e}e$ Storage Rings*, DESY publication 73/66.
- 34) Remarks on e^+e^- Annihilation, in *High Energy Leptonic Interactions* (Université Paris-Sud, Orsay, publication sponsored by CNRS, 1974).
- 35) Remarks on Neutral Current Phenomenology (with D.V. Nanopoulos), *Nuclear Physics* **B 78** 205 (1974). E: **B83** 544 (1974).
- 36) Isospin Bounds on π^- Production in $\bar{e}e$ Collisions, in *Proc. 1974 Balaton Symposium on High Energy Hadron Interactions* (Hungarian Academy of Sciences 1975).

- 37) Isospin Bounds for Energy Partition in $\bar{e}e$ and NN Annihilation (with J.S. Bell and G. Karl), *Physics Letters* **52B** 363 (1974).
- 38) Is Theoretical Physics Able to Explain $\bar{e}e$ Annihilation? in *Lepton and Hadron Structure* (Academic Press 1975).
- 39) The New Unified Field Theories, in *New Scientist*, 10 April 1974, p.74.
- 40) Theory of Inelastic Lepton Interactions, in *Proc. 1975 International Symposium on Lepton and Photon Interactions at High Energy* (Stanford University 1975).
- 41) Weak and Electromagnetic Interactions at Multi *TeV* Energies, in *CERN Yellow Report* 76-12.
- 42) Can Charm Account for Prompt Leptons? (with I. Hinchliffe), *Physics Letters* **61B** 472 (1976).
- 43) Heavy Leptons, *Proc. Roy. Soc.* **A355** 585 (1977).
- 44) Charm as a Possible Source of Prompt Leptons (with I. Hinchliffe), *Nuclear Physics* **B114** 45 (1976).
- 45) Lepton Energy Spectra in $\bar{e}e$ Annihilation and Other Processes (with M.Gronau, T.F.Walsh, T.C. Yang and S. Wolfram), *Nuclear Physics* **B123** 47 (1977).
- 46) Possible Pattern of Scaling Violations in the Production of Ws, Zs and μ -Pairs (with I.Hinchliffe), *Physics Letters* **66B** 281 (1977).
- 47) Weak and Electromagnetic Interactions at High Energies, *Proc. XXIX Les Houches Summer School in Theoretical Physics* (editor with R. Balian) (North Holland 1977).
- 48) Physics with Large Electron-Proton Storage Rings (with B. Wiik) DESY 77/38 (1977).
- 49) Speech at the Inauguration of the CERN SPS, *CERN/SIS-PU-77-14* (1977).
- 50) Detailed Treatment of Scaling Violations in Asymptotically Free Gauge Theories (with I. Hinchliffe), *Nuclear Physics* **B128** 93 (1977).
- 51) Neutrino Physics, in *Proc. 1977 CERN Summer School (CERN Yellow Report, CERN 77-18)*.
- 52) Scaling Violations and Neutrino Cross-sections (with I. Hinchliffe), *Physics Letters* **70B** 247 (1977).
- 53) QCD Calculation of Three Jet Processes in Lepto-production and Hadronic μ -pair Production (with K.H. Graig), *Physics Letters* **72B** 349 (1978).
- 54) Deep Inelastic Phenomena, *Lectures at 1977 Cargèse Summer Institute*, Plenum Press (1979).
- 55) Positivity Constraints on Quark and Gluon Distributions (with S. Wolfram), *Nuclear Physics* **B138** 333 (1978).
- 56) Jets and QCD - lecture at XVII Int. Univ. Wochen für Kernphysik, Schaldming. *Acta Physica Austriaca Supp. XIX*, 331 (1978).
- 57) QCD Predications for Processes Involving Real Photons, *Physics Letters* **79B** 83 (1978).
- 58) e^+e^- Physics Beyond PETRA Energies, in *Proc. LEP Summer Study, CERN yellow Report 79-01* (1979).
- 59) Perturbative QCD in a Covariant Gauge (with A.B. Carter), *Nuclear Physics* **B162** 397 (1980).

- 60) Topics in QCD, in "*Quantum Flavor Dynamics, Quantum Chromodynamics and Unified Theories*", ed. K. Mahanthappa and J. Randa, Plenum Press (1980).
- 61) A Stagnant Gauge for QCD, *Nuclear Physics* **B165** 423 (1980).
- 62) Photoproduction of μ -Pairs and Large P_T Particles (with I. Kang), *Nuclear Physics* **B166** 413 (1980).
- 63) Theoretical Considerations about Weak Interactions in *Study of the Proton-Electron Ring HERA, ECFA 80/42. DESY-HERA 80/01*
- 64) Manifest and Hidden Symmetry, in '*The Nature of Matter*' (1980 Wolfson Lectures) ed. J.Mulvey, Oxford University Press (1981).
- 65) Trends in Particle Physics in ' *$\gamma\gamma$ Collisions*', ed. G. Cochard and P. Kessler, Springer (1980).
- 66) Confinement and Lattice QCD, in Proc. 1980 CERN Summer School, *CERN Yellow Report 81-04*.
- 67) Low Energy Predictions from Grand Unified Theories (with G.G. Ross and J.F.Wheater), *Nuclear Physics* **B117** 263 (1981).
- 68) Perturbative QCD, in *Proc. 20th Int. Conf. on High Energy Physics, Madison 1980*, ed. L.Durand and L.G. Pondrom, American Institute of Physics.
- 69) Antimatter Back to Front, *Nature* **289** 534 (1981).
- 70) The Values of M_W , M_Z , $\sin^2 \theta_W$ and M_X in '*QCD and Lepton Physics*', ed. J. Tran Thanh Van, Editions Frontiers (1981).
- 71) Summary talk in '*QCD and Lepton Physics*', loc.cit.
- 72) Theoretical Status of QCD, *Phil. Trans. Roy. Soc. Lond.* **A 304** 5 (1982).
- 73) The Real Gauge Hierarchy Problem (with G.G Ross), *Physics Letters* **105B** 38 (1981).
- 74) Electroweak Radiative Corrections (with J.F. Wheeler), *Physics Letters* **105B** 486 (1981).
- 75) Introduction to Perturbative QCD in '*Particles and Fields 2*', ed. A.Z. Capri and A.N.Kamal, Plenum (1983).
- 76) Electron-Positron Annihilation at 100GeV in '*Particles and Fields 2*', ed. A.Z. Capri and A.N. Kamal, Plenum (1983).
- 77) Popping the Quarks, *The Guardian*, 5 October 1981, p.19.
- 78) Electroweak Radiative Corrections and the Value of $\sin^2 \theta_W$ (with J.F. Wheeler), *Nuclear Physics* **B208** 27 (1982). E: **B226** 547 (1983).
- 79) Will the Universe become Supersymmetric? (with J.R. Ellis and G.G. Ross), *Physics Letters* **114B** 227 (1982).
- 80) Supersymmetry and its Experimental Consequences, *Physics Reports* **105** 53 (1984).
- 81) Is there a Desert Beyond the Mountains? '*Physics in Collision II*', p. 405, ed. P. Carlson and W.P. Trower, Plenum (1983).

- 82) A New Proposal for Monte Carlo Simulation of Fermions on a Lattice (with S.J. Anthony and J. F. Wheeler), *Physics Letters* **116B** 287 (1982).
- 83) Hadroproduction of Supersymmetric Particles (with P.R. Harrison), *Nuclear Physics* **B213** (1983). E: **223** 542.
- 84) Grand Unification, in *'Techniques and Concepts in High Energy Physics'*, p.1, ed. T. Ferbel, Plenum (1983).
- 85) Why believe in Quantum Chromodynamics? in *'Short-Distance Phenomena in Nuclear Physics'*, p. 27, ed. D.H. Boal and R.M. Woloshyn, Plenum (1983).
- 86) The Structure of the Neutron, Institute of Physics Conference, Series 64, section 2, p.21. *Conference on the Neutron and its Applications*, Cambridge 1982.
- 87) Leptoproduction of Supersymmetric Particles (with S.K. Jones), *Nuclear Physics* **B 217** 145 (1983).
- 88) Theoretical Issues in Neutrino Physics, *CERN Yellow Report*, 83-02, Vol. 2, p.180 (1983).
- 89) On the determination of $\sin^2 \theta_W$ in Semileptonic Neutrino Processes, *Nuclear Physics* **B 288** 205 (1983).
- 90) A Possible Explanation of the Difference between the Structure Functions of Iron and Deuterium, *Physics Letters* **B 128** 107 (1983).
- 91) The Strong Electromagnetic and Weak Couplings, *Phil. Trans. Royal Soc.* **A310** 253 (1983).
- 92) Nuclear Effects in Deep Inelastic Scattering, in *'Experimentation at HERA'*, p. 55, *DESY HERA 83/20* (1983).
- 93) How does the Standard Model stand up to the Real World? in *'The State of High Energy Physics'*, ed. M. Month and Per F. Dahl, *American Institute of Physics Conference Proceedings 134* (1985).
- 94) Highlights of the Symposium, in *'Proc. 1983 International Symposium on Lepton and Photon Interactions at High Energies'*, p. 385, ed. D.G. Cassel and D.L. Kreinrick, Cornell (1983).
- 95) Asymptotic Q^2 for Exclusive Processes in QCD (with N. Isgur), *Physical Review Letters* **52** 1080 (1984).
- 96) Physics with a Multi TeV Hadron Collider, in *'Large Collider in the LEP Tunnel'* Vol.1, p.27, ed. M. Jacob, *ECFA 84/85, CERN 84-10* (1984).
- 97) Heavy Vector Bosons and Super Colliders (with R.J.N. Phillips and J.F. Wheeler), in *'Large Hadron Collider in the LEP Tunnel'* Vol. 2, p. 543, ed. M. Jacob, *ECFA 84/85, CERN 84-10* (1984).
- 98) Nuclear Effects in Deep Inelastic Scattering, *Nuclear Physics* **A434** 35 (1984).
- 99) Supersymmetry without Superfields, in *'Fundamental Forces'*, ed. D. Frame and K.J. Peach, *Scottish Universities Summer School in Physics 1984* (published 1985).
- 100) Opportunities in Particle Physics, *Nature* **312** 588 (1984).
- 101) High Energy Particle Physics in *'High Energy Particle Physics in the United Kingdom'*, p.10, *ABRC-SERC report 1985*.
- 102) Science Policy and Public Spending (with J.A. Kay), *Fiscal Studies* Vol. 6, No. 3, p. 14 (1985).

- 103) Particle Physics Today; Quarks, W Bosons and all that, *Science and Public Affairs* No.1, p. 61 (1986).
- 104) Future Accelerators, p.207, *Proc. 2nd Hellenic Summer School*, ed. E. N. Argyres and G. Zoupanos, World Scientific (1986).
- 105) Physics at Future High Energy Colliders, p. 255, *Proc. XXIII International Conference on High Energy Physics*, World Scientific (1987).
- 106) Higgs Boson Production and the Scattering of Longitudinally Polarised Vector Bosons at Very High Energy Electron-Positron Colliders (with M.C. Bento), *Nuclear Physics* **B289** 36 (1987).
- 107) The Operator Product Expansion for Minimally Subtracted Operators (with J.P. de Vries), *Nuclear Physics* **B296** 991 (1988).
- 108) Horizons of High Energy Physics, in '*New Developments in Particle Acceleration Techniques*', ed. S. Turner, p. 7, CERN 87-11, ECFA 87/110.
- 109) Final Report of the CERN Review Committee, *CERN/1675*, (1987): primary authorship of Chapters II and III.1 and Annexes II.1, II.2, III.1 and VIII.1.
- 110) Perturbative QCD in Exclusive Processes (with N. Isgur), *Physics Letters* **B217** 535 (1989).
- 111) The Applicability of Perturbative QCD in Exclusive Processes (with N.Isgur), CERN TH-5013, *Nuclear Physics* **B317** 526 (1989).
- 112) Quark Correlation Functions and Deep Inelastic Scattering, in '*Symmetry violations in Subatomic Physics*', p. 139, eds. B. Castel and P.J. O'Donnell, *Proc. 1988 CAP-NSERC Summer Institute*, World Scientific (1989).
- 113) Particle Phenomenology: the Standard Model, in '*Physics of the Early Universe*', p. 145, eds. J.A. Peacock, A.F. Heavens and A.T. Davies, *Proc. 1989 Scottish Universities Summer School*, SUSSP Publications (1990).
- 114) Broken R-Parity (with P. Binetruy and others), p. 666, *Large Hadron collider Workshop*, Vol. II, *CERN 90-10, ECFA 90-133* (1990).
- 115) Summary and Look to the Future, in '*Proceedings of the Discussion Meeting on Results from the Large Electron Positron Collider (LEP) at CERN*' *Transactions of the Royal Society* **A 336** 307 (1991).
- 116) Physics with Proton Beams, in '*Towards the LHC Experimental Programme*', ed. G. Flügge, CERN/ECFA (1992). [5-8 March 1992, Evian-les-Bains, France]
- 117) New Particles - Possibilities and Prospects, '*The Search for New Elementary Particles: Status and Prospects*', p. 287, eds. G. Herten, L. Beers and M. Perl, *Proc. Trieste Workshop*, Int. J. Mod. Phys. A (Proc. Suppl.) 3B, World Scientific (1993).
- 118) What's the Use of Physics? *Current Science*, Vol. 64, No. 3, p.142 (1993).
- 119) The Shifted Coupled Cluster Method: a New Approach to Hamiltonian Lattice Gauge Theories (with N.J. Watson), p. 463, *Physics Letters* **B 302** (1993).
- 120) Physics Prospects at Future colliders, '*Physics in collision 13*', p. 475. eds. E.-E. Kluge and K. Tütel, *Proc. 13th International Conference on Physics in Collision, Heidelberg, 1993*, Editions Frontières (1994).
- 121) Particle Physics in the Future, '*Proc. Perkins Retirement Conference, Oxford 1993*', p. 175. eds. R.J. Cashmore, G. Myatt, World Scientific (1994).

- 122) The Large Hadron Collider, *SLAC Beamline*, Vol. 24, p.12, Spring 1994.
- 123) LHC - ein Welt-Projekt?, p. 523, *Physikalische Blätter* **50**, Nr. 6 (1994).
- 124) Present and Future Particle Facilities in Europe, in '*Large Facilities in Physics*', p.11, eds. M. Jacob, H. Schopper, *Proc. 5th EPS International Conference, Lausanne, 1994*, World Scientific (1994).
- 125) The Hadronic Future, in '*Hot Hadronic Matter: Theory and Experiment*', p.547, eds. J. Letessier, H. Gutbrod, J. Rafelksi, *Proc. NATO Advanced Research Workshop, Divonne, 1994*, Series B: Physics, Vol. 346, Plenum (1995).
- 126) Grußansprache, in '*25 Jahre GSI, Schwerionenforschung in Darmstadt*', p.20, ed.K-D Groß, GSI (1995).
- 127) Deep Inelastic Scattering: the (Distant) Past and the Long-term Future, in '*Proc. Workshop on Deep Inelastic Scattering & QCD, Paris, April 1995*', ed. J.F.Laporte and Y.Sirois, published by Ecole Polytechnique.
- 128) The LHC Project, in '*International Europhysics Conference on High Energy Physics*', p.959, eds. J. Lemonne, C.Vander Velde and F.Verbeure, World Scientific (1996).
- 129) The LHC Project, in '*Proc.1995 Symposium on Lepton-Photon Interactions*', p.370, eds.Zhi-Peng Zheng and He-Sheng Chen, World Scientific (1996)
- 130) Les Relations entre l'IN2P3 et le CERN, '*Physique Nucléaire et Corpusculaire*', p.18, numéro spécial mai 1996
- 131) Today's Viewpoint on CERN, in '*History of European Scientific and Technological Cooperation*' (Firenze, 9-11 November 1995), pp.67-71, eds J.Krige and L.Guzzeti, European Commission in Brussels (1997)
- 132) Funding of Fundamental Science, contribution to Round-Table Discussion on European S&T Cooperation: Future Prospects, in '*History of European Scientific and Technological Cooperation*' (Firenze, 9-11 November 1995), pp.447-450, eds J.Krige and L.Guzzetti, European Commission in Brussels (1997).
- 133) An introduction to E. Amaldi and CERN, in '*Gravitational Waves*' eds E. Coccia, G. Veneziano and G.Pizzella, World Scientific 1998.
- 134) What's the use of Basic Science?, http://public.web.cern.ch/Public/bs_1.html (1997)
 French version:
 A quoi sert la Recherche de Base? in *Scintillations (Journal de CEA)* Nos 34-40, December 1997 - December 1998 [note: the first section was unfortunately based on the draft of the English text]
 Abbreviated German version:
Ohne Grundlagen forschung geht es nicht, Das Magazin (Wissenschaftszentrum Nordrhein - Westfalen), 1/2000,6
- 135) The Electron - One Hundred Years as an Elementary Particle? in *Microsoft Encarta* (1997)
- 136) Inelastic Sum Rules, talk at the *Sid Drell Symposium*, July 1998. CERN-DG/98-3534; hep-ph/981230
- 137) Prospects for Particle Physics, *CERN Courier* October 1998, 38 and November 1998, 33
- 138) International Collaboration in Science: Lessons from CERN, *European Review*, Vol 7, No 1, 77 (1999) - see also related article in the *Proceedings of the 1999 World Conference on Science*
- 139) The Large Hadron Collider, *Scientific American*, July 2000, 58 (updated and reprinted in *The Edge of Physics*, special edition of *Scientific American*, Vol 13, No 1 (2003))

- 140) Is “Big Science” Expensive?, *Science in Parliament*, Vol 59, No 2, 2 (2002)
- 141) Scientific Collaboration – Building Bridges, Promoting Progress, invited talk in the session on *Science as a Global language in a Globalised World* at the Gulbenkian Foundation’s conference on *Globalisation – Science, Culture and Religions*, October 2002, to be published in the proceedings. Shortened version published in the *Oxford Magazine*, 210, January 2003.
- 142) An English Baccalaureate?, *Oxford Magazine*, 217, June 2003.
- 143) The ITER Contest, *Research Fortnight*, 25 February 2004
- 144) Prospects for Fusion, *Nuclear Physics A75*, 442 (2005) [*Proceedings of the International Nuclear Physics Conference 2004*]
- 145) Clean Energy and the fast Track to Fusion Power, *invited talk at the 2004 European Accelerator Conference* (www.cern.ch/epac/EPS-AG/; ISSN 1684 –8004 (CD ROM), 1684-761X (Web); ISBN 92-9083-232-0 (CD), 92-9083-231-2(Web))
- 146) The Need for Fusion, *invited talk at the 2004 SOFT Conference, Fusion Engineering and Design* **74** 3(2005)
- 147) Energy for the Coming Generations and the Role of Fusion in the Future energy Mix, *Dinner Debate at the European Parliament*, 25 January 2005 (published by FOM-Institute for Plasma research, Rijnhuizen), *speech* (p 8) + *notes on* (p 23 &25)
- 148) Energy Sustainability and Development, *contribution to Delhi Sustainability Summit 2005*. Text never published but video available at <http://dsds.teriin.org/2005/5feb.htm>
- 149) The “Physicist With a Capital F” (Review of two books about Enrico Fermi), *Times Higher Education Supplement*, 11 March 2005
- 150) Fusion Power (with D J Ward), *European Review*, **Vol 13, No 3** 337 (2005)
- 151) The Potential of Fusion (with D J Ward), *Journal of the British Nuclear Energy Society “ Nuclear Future”*, Issue 2/2006, 93
- 152) Nuclear Fusion Power: a bright long-term future (with D J Ward), *Civil Engineering* **158** 59 (2005)
- 153) Words on life, universe and everything (Review of the Oxford Dictionary of Scientific Quotations), *Times Higher Education Supplement* 22 July 2005
- 154) JET, ITER and beyond (with T Todd and D Ward), *Modern Power Systems*, October 2005, 11. Reprinted (in slightly modified form) in *Nuclear Engineering*, February **10** (2006)
- 155) Fusion Energy, in ‘Energy . . . Beyond Oil’, ed. K Blundell and F Armstrong, *OUP*, 2007.
- 156) Fusion (with D Ward), contribution to the 2006 Energy Foresight meeting, <http://www.foresight.gov.uk/Energy/fusion.pdf> and *Energy Policy* **36** 4331 (2008)
- 157) The Path to Fusion Power (with D Ward) – *Phil Trans Roy Soc A* **365** 94 (2007)
- 158) The Potential of Fusion Power, *Energy Focus (A Journal of Energy Studies in Parliament)* Vol 23, No 2 1 (2006)
- 159) Regional and Global Collaboration in Big Science, page 56 of http://www.feast.org/conference2006/documents/FEAST_Conference2006_transcripts.pdf , together with www.feast.org/conference2006/presentations.html.

- 160) Introductory talk at a Symposium on: Sustainable Hydrogen – a role for fusion?
<http://www.ukerc.ac.uk/TheMeetingPlace/Activities/Activities2007/0704SustHydrogenProduction.aspx>
- 161) Reinforcing and Accelerating the Path to Fusion (lead author) – input to the European Commission’s Strategic Energy Technology Plan (2007)
(http://ec.europa.eu/energy/technology/set_plan/doc/2007_technology_map_description.pdf)
- 162) How the LHC came to be, *Nature* **444** 28 (2007).
- 163) Fusion as a Future Energy Option (with D Ward) – *Environmental Scientist* Vol 16 No 3 3 (2007)
- 164) Dr Abdus Salam Remembered, *Science of Peace and Progress, Life and Work of Abdus Salam*, p616, *Intercultural Forum*, 2008, ISBN 978-0-9755860-5-1 (First published in *The Dawn* (Karachi), 22 November, 1997)
- 165) Progress in Fusion – the Importance of the Lawson Criterion , talk at the John Lawson memorial meeting, May 2008, <http://www.isis.rl.ac.uk/johnlawson>
- 166) Will the LHC surprise us? *CERN Courier*,
- 167) Energy – the Big Picture, *Future Energy* **03** 58 (2008)
- 168) The Path to Fusion Power, talk at German Physical Society Energy Conference, May 2008 – *The European Physics Journal* **176** 167 (2009)
- 169) ITER (International Tokamak Experimental Reactor), *McGraw Hill Year Book of Science & Technology* 184 (2009)
- 170) The Path to Fusion Power, text of a public lecture given in Moscow, published in Russian as a booklet by the Dynasty Foundation (2009)
- 171) The Path to Fusion Power, with S Cowley, to be published in a special 350th Anniversary Edition of *The Philosophical Transactions of the Royal Society* (2010)