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## EDUCATION

J.D., (Juris Doctor) The Law School, University of Chicago

Substantial completion of program requirements for the MBA in Business and Labor Economics, Graduate School of Business, University of Chicago

Ph.D., Physical Chemistry, University of Chicago

B.A., Chemistry, Washington University

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## HONORS AND FELLOWSHIPS

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| 1990 | Recipient of the Macedo Award of the American Association for World Health for the most outstanding contribution to public health funded by a state health department. |
| 1980 | Elected as a Fellow of the American Association for the Advancement of Science.  |
| 1975 | Lawrence R. Klein Award for the outstanding contribution to the <u>Monthly Labor Review</u> .  |
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## PROFESSIONAL APPOINTMENTS

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| 1992-Present | Professor of Technology and Policy, School of Engineering, Massachusetts Institute of Technology   |
| 1988-Present | Faculty Associate, Institute for Work and Employment Research, MIT Sloan School of Management  |
| 1984-Present | Adjunct Faculty in Occupational Health Policy, Harvard School of Public Health   |
| 1978-Present | Adjunct Associate Professor of Public Health, Department of Socio-Medical Sciences and Community Medicine, Boston University School of Public Health |
| 2002-Present | Faculty Associate, Environmental Policy Group, MIT Urban Studies Department  |

ADDITIONAL PROFESSIONAL EXPERIENCE

- 1998-1999 Visiting Professor, Erasmus University, Rotterdam, Faculty of Law and Centre for Environmental Studies and Delft University, Faculty of Technology, Policy, and Management
- 1978-1992 Associate Professor of Technology and Policy, MIT School of Engineering
- 1983-1985 Director, Center for Policy Alternatives, Massachusetts Institute of Technology
- 1978-1983 Assistant Director, Center for Policy Alternatives, Massachusetts Institute of Technology

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

US-Greek Joint Council on Technology Cooperation with the Balkans, Co-chair (1999-present)

American Association for the Advancement of Science, Fellow (1980-Present)  
Chair-elect, 2002, Section on the Societal Impacts of Science and Technology

Center for Auto Safety, Board of Directors, 2003 to present.

United Nations Environment Programme, Member of the Advisory Committee on Environmental Technology Assessment

EPA National Advisory Council on Environmental Policy and Technology, Chairman of the Committee on Technology, Innovation and Economics (1988-1992)

American Public Health Association, Member of the Governing Council (1989-1991)

National Advisory Committee on Occupational Safety and Health, former Chairman and Public Member (1976-1982)

Science Advisory Board of the U.S. Environmental Protection Agency (Environmental Measurements Committee) (1978-1982)

State of Massachusetts Energy Advisory Board (1983-1985)

American Chemical Society (Division of Chemical Safety), Founding Member

Society for Occupational and Environmental Health, Governing Council; Vice President (1985-1986)

*Collegium Ramazzini*, Member of Council of Fellows

Council for Responsible Genetics, Member of the Founding Board of Directors

PROFESSIONAL AFFILIATIONS AND ACTIVITIES (continued)*Journal of Environmental Policy and Governance*, Editorial Board*Journal of Environmental Technology and Management*, Editorial Board*Environmental Innovation and Societal Transitions*, Editorial Board*Journal of Cleaner Production*, Member of the International Editorial Advisory Board*International Journal of Occupational and Environmental Health*, Editorial Board*American Journal of Industrial Medicine*, Editorial Board

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TEACHING ACTIVITIES: MIT

Technology, Globalization, &amp; Sustainable Development ESD.137J/15.657J/1.813J

Environmental Law, Policy, and Economics 1.811J/ESD.133J/11.630J

Law, Technology, and Public Policy ESD.132J/15.655J

Regulation of Chemicals, Radiation &amp; Biotechnology 1.812J/ESD.134J/11.631J

Technology, Law, and the Working Environment 10.805J/ESD.135J

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TEACHING ACTIVITIES: Non-MITCambridge University, Department of Environmental Engineering for Sustainable Development  
2002-present

Cyprus University of Technology 2004-present

Erasmus University, Faculty of Law and Centre for Environmental Studies, Visiting Professor, 1998-  
1999.

Delft University, Faculty of Technology, Policy, and Management, visiting Professor, 1999.

Boston University School of Public Health, Adjunct Associate Professor of Public Health,  
Department of Socio-Medical Sciences and Community Medicine, 1978-1985.

Franklin Pierce Law Center, Adjunct Professor of Law, 1975-1979.

LANGUAGE PROFICIENCY

DUTCH	Spoken and written
GERMAN	Spoken and written
GREEK	Spoken and written

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FIELDS OF INTEREST

Technology, Globalization, and Sustainable Development  
Environmental law and economics  
Trade Law  
Governance and Environmental Decision-making  
EU and U.S. Regulatory policy, law, and economics  
Public and Stakeholder Participation  
Governmental policy affecting technological innovation  
Environmental/Occupational health and safety  
Labor law and economics  
Technology assessment  
Technological innovation  
Pollution prevention  
Environmental justice

PUBLICATIONS (See also: <http://dspace.mit.edu/browse?value=Ashford,+Nicholas&type=author> )

#### BOOKS/JOURNAL SPECIAL ISSUES

1. Technology, Globalization and Sustainable Development: Transforming the Industrial State, N. A. Ashford and R. P Hall, Yale University Press, 2011, 720 pages. See: <http://ralphphall.wordpress.com/technology-globalization-and-sustainable-development/>  
For presentations of the ideas addressed in this book see: <http://techtv.mit.edu/search?utf8=%E2%9C%93&q=ashford&x=0&y=0>
2. Environmental Law, Policy, and Economics: Reclaiming the Environmental Agenda, N.A. Ashford and C.C. Caldart, MIT Press, 2008, 1088 pages. See <http://mitpress.mit.edu/9780262012386>
3. Public Participation in Contaminated Communities, N.A. Ashford and K.M. Rest, 2001 (available at <http://ashford.mit.edu/public-participation-contaminated-communities>)
4. Chemical Exposures: Low Levels and High Stakes N. A. Ashford and C. S. Miller, Second Edition, John Wiley Press, 1998, 440 pages. Available for free at <http://www.chemicalexposures.com> Click on the picture of the book cover.
5. Industrial Ecology, Nicholas A. Ashford and Raymond Côté (eds.), Special Issue of The Journal of Cleaner Production, Volume 5, Number 1/2, 1997, 181 pp (available under 'Special Issues: Industrial Ecology 1997' at <http://www.elsevier.com/locate/jclepro>).
6. Occupational Health and Safety in British Columbia: An Administrative Inventory of the WCB Prevention Division, K. M. Rest and N. A. Ashford, Ashford Associates, Cambridge, MA. 1997, 208 pages.
7. Technology, Law and the Working Environment, N.A. Ashford and C.C. Caldart, Second Edition, Island Press, 1996, 641 pages.
8. Worker Compensation for Radiation-Induced Illness: A Re-examination of Past Practices and Options for Change: A Report to the Department of Energy, N. A. Ashford, C. C. Caldart, D. B. Hattis and R. F. Stone, July 1996
9. Occupational Safety and Health in British Columbia: An Administrative Inventory, K.M. Rest and N.A. Ashford, Ashford Associates, Cambridge, MA, 1992, 264 pp.
10. Monitoring the Worker for Exposure and Disease: Scientific, Legal and Ethical Considerations in the Use of Biomarkers, N.A. Ashford, C.J. Spadafor, D.B. Hattis and C.C. Caldart, John Hopkins University Press, Baltimore, 1990, 224 pp.
11. Analyzing the Benefits of Health, Safety, and Environmental Regulations, N.A. Ashford et al., Cambridge: Center for Policy Alternatives at MIT, CPA-82-16, September 1982.
12. Evaluating Chemical Regulations: Trade-Off Analysis and Impact Assessment for Environmental Decision-Making, N.A. Ashford, D. Hattis, G.R. Heaton, J.I. Katz, W.C. Priest, NTIS #PB81-195067, E.M. Zolt, 1980.

13. Crisis in the Workplace: Occupational Disease and Injury, N.A. Ashford, A Report to the Ford Foundation, MIT Press, Cambridge, MA, March 2, 1976, 579 pp.

CONTRIBUTIONS TO BOOKS

1. "The Clean Air Act" N. A. Ashford and Charles C. Caldart in David Coates, Kathy Smith and Charles Walldorf (editors), *The Oxford Companion to American Politics*, New York: Oxford University Press, July 2012
2. "Reducing Physical Hazards: Encouraging Inherently Safer Production" 2013. Chapter 17 in Robert Boethling, Adelina Voutchkova, and Paul Anastas (Eds) Designing Safer Chemicals Handbook of Green Chemistry Series 9:485-500, Wiley-VCH, Weinheim, Germany
3. "Government Regulation of Environmental and Occupational Health and Safety in the United States and the European Union" Nicholas A. Ashford and Charles C. Caldart in Occupational and Environmental Health: Recognizing and Preventing Disease and Injury, 6th ed. Barry S. Levy, David H. Wegman, Rosie Sokas, and Sherry Baron (eds.), Oxford University Press 2010. Available at <http://hdl.handle.net/1721.1/55358>
4. "Reflections on Environmental Liability Schemes In the United States and European Union: Limitations and Prospects For Improvement" Presented at the Conference on Environmental Liability, Piraeus Bar Association, Piraeus, Greece, 26-27 June 2009. Available at <http://hdl.handle.net/1721.1/55293>
5. "Environmental Regulation, Globalization, and Innovation" Chapter 24 in Kevin P. Gallagher (ed.), Handbook on Trade and the Environment Edward Elgar: Chettendam and Northampton, 2009. Available at <http://hdl.handle.net/1721.1/55302>
6. "Environmental and Occupational Health Protection Laws", Nicholas A. Ashford and Charles C. Caldart in Encyclopedia of Public Health, Elsevier, 2008. Available at <http://hdl.handle.net/1721.1/41847>
7. "The Legacy Of The Precautionary Principle In U.S. Law: The Rise of Cost-Benefit Analysis and Risk Assessment as Undermining Factors in Health, Safety and Environmental Protection" in Sadeleer, Nicolas (ed.), Implementation Of The Precautionary Principle In The Nordic Countries: Lessons from the EU and the United States Earthscan, London, 2007, pp. 352-378. Available at <http://hdl.handle.net/1721.1/38470>
8. "The Role of the United States–Greek Initiative for Technology Cooperation with the Balkans in Constructing a Unified Environmental Technology Plan" Nicholas A. Ashford and Christi Electriss, *Southeast European and Black Sea Studies* Vol. 6, No. 3, September 2006, pp. 391–397. Available at <http://hdl.handle.net/1721.1/38471>
9. "Workers' Compensation," in Environmental and Occupational Medicine, 4<sup>th</sup> Edition, W.N. Rom (ed.), Lippincott-Raven, Philadelphia, 2006. Available at <http://hdl.handle.net/1721.1/38472>
10. "Government Regulation" Nicholas A. Ashford and Charles C. Caldart in Occupational and Environmental Health: Recognizing and Preventing Disease and Injury, 5th ed. Barry S. Levy and David H. Wegman (eds.), Lippincott Williams & Wilkins, Philadelphia 2005, pp. 39-73 Available at <http://hdl.handle.net/1721.1/38473>

11. "Negotiated Regulation, Implementation and Compliance in the United States", Nicholas A. Ashford and Charles C. Caldart in The Handbook of Environmental Voluntary Agreements Eduardo Croci (ed.), Kluwer Academic Publisher – Environmental and Policy Series, 2005, pp.135-159. Available at <http://hdl.handle.net/1721.1/41848>
12. "Government and Environmental Innovation in Europe and North America" in Towards Environmental Innovation Systems Matthias Weber and Jens Hemmelskamp (eds.) Springer, Heidelberg, 2005, pp. 159-174. ISBN 3-540-22322-3. Available at <http://hdl.handle.net/1721.1/41850>
13. "Pathways to Sustainability: Evolution or Revolution?" in Regional Development and Conditions for Innovation in the Network Society, Marina van Geenhuizen, David V. Gibson, and Manuel V. Heitor (eds.), Purdue University Press, 2005, pp. 35-59. Available at <http://hdl.handle.net/1721.1/1588>
14. "Sustainable Development and Globalisation: New Challenges and Opportunities for Work Organisation" in Promoting New Forms of Work Organization and Other Cooperative Arrangements for Competitiveness and Employability, Christina Nova-Kaltsouni and Michael Kassotakis (eds.), National and Kapodistrian University of Athens, (2004) pp. 50-61. Available at <http://hdl.handle.net/1721.1/41852>
15. "Justice in the Global Work Life: The Right to Know, to Participate, and to Benefit in Sustainable Industrial Transformations," Proceedings of the High-level Conference on Work Life in the 21<sup>st</sup> Century, 15-17 October 2001, Helsinki, in *People and Work Research Reports* 49:74-78, the Finnish Institute of Occupational Health, 2002. Available at <http://hdl.handle.net/1721.1/1589>
16. "Pathways to Sustainability: Evolution or Revolution?" in Innovation and Regional Development in the Network Society, Marina van Geenhuizen, David V. Gibson, and Manuel V. Heitor (eds.), Purdue University Press, 2005, pp. 35-59. Available at <http://hdl.handle.net/1721.1/38474>
17. "Innovation – The Pathway to Threefold Sustainability" in The Steilmann Report: The Wealth of People: An Intelligent Economy for the 21<sup>st</sup> Century Lehner, Franz, Charles, Anthony, Bieri, Stephan, and Paleocrassas, Yannis (eds.) Brainduct® - digital edition, 2001 pp 233-274, based on Ashford, Nicholas A., "Technological, Organisational, and Social Innovation as Pathways to Sustainability." Available at <http://hdl.handle.net/1721.1/1584>
18. "Multiple Chemical Intolerance and Indoor Air Quality", C. S. Miller and N. A. Ashford in Indoor Air Quality Handbook, J. Spengler, J. M. Samet, and J. F. McCarthy (Eds.), McGraw-Hill, New York, 2000, chapter 27, 32 pages. Available at <http://hdl.handle.net/1721.1/1562>
19. "An Innovation-Based Strategy for a Sustainable Environment," in Innovation-Oriented Environmental Regulation: Theoretical Approach and Empirical Analysis, J. Hemmelskamp, K. Rennings, F. Leone (Eds.) ZEW Economic Studies. Springer Verlag, Heidelberg, New York 2000, pp 67-107 (Proceedings of the International Conference of the European Commission Joint Research Centre, Potsdam, Germany, 27-29 May 1999.) Available at



<http://hdl.handle.net/1721.1/1590>

20. "Government Regulation of Occupational Health and Safety," in Occupational Health: Recognizing and Preventing Work-Related Disease, Fourth Edition, B. S. Levy and D. H. Wegman (eds.), Little Brown, Boston, 1999.
21. "The Economic and Social Context of Special Populations", in Special Populations in Occupational Health Frumkin, Howard and Pransky, Glenn (eds.), *Occupational Medicine: State of the Art Reviews* 14(3), 1999, pp 485-493.
22. "The Influence of Information-based Initiatives and Negotiated Environmental Agreements on Technological Change" in Voluntary Approaches in Environmental Policy, C. Cararro and F. Leveque (eds.), Kluwer Academic Publishers, Lancaster, UK 1999, pp 137-150.
23. "A Conceptual Framework For The Use of the Precautionary Principle in Environmental Law," in Raffensperger, C. and Tickner, J. (eds.) Protecting Public Health and the Environment: Implementing the Precautionary Principle Washington DC: Island Press 1999, pp 198-206.
24. "Shifting the Focus of Occupational Health and Safety Services", Nicholas A. Ashford and Kathleen M. Rest in Evaluation in Occupational Health Practice, Eva Menckel and Peter Westerholm (Eds.), Butterworth Heinemann, 1999, pp 221-227.
25. Forward to Making Microchips: Policy, Globalization, and Economic Restructuring in the Semiconductor Industry, J. Mazurek, MIT Press, 1998.
26. "Economic Issues in Occupational Health and Safety," N. A. Ashford and R. F. Stone, in Environmental and Occupational Medicine, W.N. Rom (ed.), Little, Brown & Company, Boston, MA, 1998, pp 1681-1690.
27. "Workers' Compensation," in Environmental and Occupational Medicine, W.N. Rom (ed.), Little, Brown & Company, Boston, MA, 1998, pp 1709-1714.
28. "International Control of Occupational and Environmental Health Hazards," in International Occupational and Environmental Medicine, L. E. Fleming, J. Herzstein, and W. B. Bunn, OEM Press, Boston, 1997, pp 47-62.
29. "The Corporate Role in Protecting Health Safety and The Environment" in Biopolitics: Business Strategy for the Bio-Environment, Vol. III, A. Vlavianos-Arvanitis (ed.), proceedings of the International Conference, Athens, Greece, October 1995, Biopolitics International Organization, Athens, Greece, 1996, pp 145-156.
30. "Value Judgements and Risk Assessment," and "Future Directions in Reducing Occupational and Environmental Risks: A Warning Against Over-reliance on Risk Assessment Approaches," in Chemical Risk Assessment and Occupational Health: Current Applications, Limitations, and Future Prospects, C. M. Smith, D. C. Christiani, and K. T. Kelsey (eds.), Auburn House, Westport, CT., 1994, pp 197-202; 225-227.

31. "An Innovation-Based Strategy for the Environment," in Worst Things First? The Debate Over Risk-based National Environmental Priorities, A. M. Finkel and D. Golding (eds.), Resources for the Future, Washington, DC, 1994, pp. 275-314.
32. "Promoting Technological Changes in the Workplace: Public and Private Initiatives," in Technological Change in the Workplace: Health Impacts for Workers, M. Brown and J. Froines (eds.), UCLA Institute of Industrial Relations, Los Angeles, CA, 1993, pp 23-36.
33. "Understanding Technological Responses of Industrial Firms to Environmental Problems: Implications for Government Policy," in Environmental Strategies for Industry: International Perspectives on Research Needs and Policy Implications, K. Fischer and J. Schot (eds.), Island Press, Washington, DC, 1993, pp 277-307. Available at <http://hdl.handle.net/1721.1/1552>
34. "Technological Imperatives--Challenges and Solutions" in Biopolitics: The Bio-Environment, Vol. IV, A. Vlavianos-Arvanitis and R. Keles (eds.), proceedings of the Fifth B.I.O. International Conference, Istanbul, May, 1992, Biopolitics International Organization, Athens, Greece, 1993, pp 53-58.
35. "Case Definitions for Multiple Chemical Sensitivity," N.A. Ashford and C.S. Miller; "Allergy and Multiple Chemical Sensitivities Distinguished," and "Possible Mechanisms for Multiple Chemical Sensitivity: The Limbic System and Others," C.S. Miller and N.A. Ashford, in Multiple Chemical Sensitivities: Addendum to Biological Markers in Immunotoxicology, National Research Council, Washington, DC, 1992, pp 41-45; 47-63; 139-147.
36. "Chemical Sensitivity and Low-Level Exposures: Scientific and Policy Considerations," N.A. Ashford and C.S. Miller, in Quality of the Indoor Environment, J. Lester, R. Perry, and G. Reynolds (eds.), Selper, Ltd., London, 1992, pp 49-70.
37. "Liability, Innovation, and Safety in the Chemical Industry," N.A. Ashford and R.F. Stone, in The Liability Maze: The Impact of Liability Law on Safety and Innovation, Robert Litan and Peter Huber (eds.), Brookings Institution, Washington, DC, 1991, pp 367-427. Available at <http://hdl.handle.net/1721.1/1553>
38. "Medical Screening for Carcinogens: Legal and Ethical Considerations," in Molecular Dosimetric Human Cancer: Analytical, Epidemiological and Social Considerations, J.D. Groopman and P.L. Skipper (eds.), Telford Press, West Caldwell, NJ, 1991, pp 417-442.
39. Introduction to Making Cancer Policy by Mark E. Rushefsky, State University of New York Press, 1986.
40. "Science and Science Policy Considerations Concerning the Regulation of Silica," Silica, Silicosis and Cancer, D. Goldsmith, D. Winn, and C. Shy (eds.), proceedings of an international symposium, Chapel Hill, North Carolina, April 3-5, 1984. Praeger, New York, 1985, pp. 519-522.
41. "Policy Issues in Technology Transfer," in The Export of Hazard, Jane Ives (ed.), Routledge & Kegan Paul, Ltd., London, 1985, pp. 128-141.

42. "The 'Right to Know': Toxics Information Transfer in the Workplace," N.A. Ashford and Charles C. Caldart, The Annual Review of Public Health (eds.), L. Breslow, J.E. Fielding, and L.B. Lave, Volume 6, May 1985, pp. 383-401.
43. "Worker Involvement in Technological Choices Affecting Occupational Health and Safety: The American Experience," in Work and Health in the 1980's, International Institute for Comparative Social Research/Labor Policy, 1985, pp. 269-280.
44. "Legal Considerations of Reproductive Hazards in Industry in the United States," in Pregnant Women at Work, Geoffrey Chamberlain (ed.), The Royal Society of Medicine and The Macmillan Press Ltd., London, 1984, pp. 225-239.
45. "The Role of Advisory Committees in Resolving Regulatory Issues Involving Science and Technology: Experience from the Occupational Safety and Health Administration and the Environmental Protection Agency," in Resolving Regulatory Issues Involving Science and Technology, Nyhart and Carrow (eds.), Lexington Books, D.C. Heath & Co., Lexington, MA, 1983, pp. 165-173.
46. "Federal Regulation of Toxic Substances in the Workplace," Safety Evaluation and Regulation of Chemicals, F.J. Homburger (ed.), (Basle 1983), Proceedings of the First International Conference on Safety Evaluation and Regulation of Chemicals, Boston 1982, pp. 58-65.
47. "The Conflict Over Workplace Inspections," in Legal and Ethical Dilemmas in Occupational Health, Lee and Rom (eds.), Ann Arbor Science Publishers, Inc., Ann Arbor, MI, 1982, pp. 141-147.
48. "Regulatory Responses to Carcinogens, Mutagens, and Teratogens," in Quantitative Risk in Standards Setting, Proceedings of the Sixteenth Annual Meeting of the National Council on Radiation Protection and Measurements held on April 2-3, 1980, National Council on Radiation Protection and Measurements, ISSN 0195-7740, April 3, 1981, pp. 34-43.
49. "Legal Implications of Working with Carcinogens," in Carcinogens in Industry and Environment, James M. Sontag (ed.), Marcel Dekker, Inc., New York, 1981, pp. 47-76.
50. "Regulatory Policy for Mutagens and Teratogens," Genetics and the Law II, A. Milunsky and G. Annas (eds.), Plenum Press, New York, 1980, pp. 413-419.
51. "Economic Issues in Occupational Health and Safety," pp. 66-80, "The Shape of a Solution," pp. 84-95, "The Foreign Experience and Its Relevance to the United States," N.A. Ashford et al., pp. 324-361, in Protecting People at Work, U.S. Department of Labor, Washington, DC, 1980.
52. "Environmental, Health and Safety Regulations and Technological Innovation," N.A. Ashford, G.R. Heaton, W.C. Priest, in Technological Innovation for a Dynamic Economy, C. T. Hill and J. M. Utterback (eds.), Pergamon Press, Inc., NY, 1979, pp. 161-221. Available at <http://hdl.handle.net/1721.1/1554>

53. "The Effects of Health, Safety, and Environmental Regulation on Technological Change in the Chemical Industry: Theory and Evidence," N.A. Ashford and G.R. Heaton, in Federal Regulation and Chemical Innovation, C.T. Hill (ed.), American Chemical Society, 1979, pp. 45-66.

PUBLICATIONS: General

1. Letter to the Editor: "Trade Policy" Winter 2014 *Issues in Science and Technology*:14-16. Available at <http://www.issues.org/30.2/forum.html>
2. Book Review: "*Climate Change Geoengineering: Philosophical Perspectives, Legal Issues, Governance Frameworks*", edited by Wil C. G. Burns and Andrew L. Strauss. *Anthem Enviroexperts Review*. Available at <http://www.anthemenviroexperts.com/?p=585>
3. "A Four-day Workweek: a Policy for Improving Employment and Environmental Conditions in Europe" (2013). N. A. Ashford and G. Kallis. *The European Financial Review* April-May 2013, pp. 53-58. Available at <http://www.europeanfinancialreview.com/?p=6601>
4. "Friday off": Reducing Working hours in Europe" (2013). Giorgos Kallis, Michael Kalush, Hugh O'Flynn, Jack Rossiter, and Nicholas Ashford, *Sustainability* 4(5):1545-1567. Available at <http://www.mdpi.com/journal/sustainability> Type in "Ashford" in author search.
5. "Addressing the Crisis in Employment and Consumer Demand: Reconciliation with Financial and Environmental Sustainability" (2012). N. A. Ashford, R. P. Hall, and R. Ashford. *The European Financial Review* October-November 2012, pp. 63-68. Available at <http://www.europeanfinancialreview.com/?p=5884>
6. "Broadening Capital Acquisition with the Earnings of Capital as a Means of Sustainable Growth and Environmental Sustainability" (2012). R. Ashford, R. P. Hall, and N. A. Ashford. *The European Financial Review* October-November 2012, pp. 70-74. Available at <http://www.europeanfinancialreview.com/?p=5984>
7. "The Crisis in Employment and Consumer Demand: Reconciliation with Environmental Sustainability" (2012). N. A. Ashford, R. P. Hall, and R.H. Ashford. *Environmental Innovation and Societal Transitions*. Volume 2, Issue 1 Available at: <http://www.sciencedirect.com/science/article/pii/S2210422412000032>
8. "The Importance of Regulation-Induced Innovation for Sustainable Development" N. A. Ashford and R. P. Hall (2011). *Sustainability* 3(1): 270-292. Available at <http://www.mdpi.com/journal/sustainability> Type in "Ashford" in author search.

Based on an article previously published in EKONOMIAZ:Revista Vasca de Economía, Número 75. III/10, ECO-INNOVACIÓN. MÁS ALLÁ DE LOS FACTORES, LA PRODUCTIVIDAD DE LOS RECURSOS NATURALES. **English:** Environmental Regulation, Globalization, and Innovation: Integrating Industrial, Environmental, and Trade Policies. Available at [http://www1.euskadi.net/ekonomiaz/taula4\\_c.apl?REG=1084](http://www1.euskadi.net/ekonomiaz/taula4_c.apl?REG=1084) **Spanish:** Regulación medioambiental, globalización e innovación: integración de las políticas industriales,

medioambientales y comerciales Available at  
[http://www1.euskadi.net/ekonomiaz/taula4\\_c.apl?REG=1083](http://www1.euskadi.net/ekonomiaz/taula4_c.apl?REG=1083)

See also: "Regulation-Induced Innovation for Sustainable Development" N. A. Ashford and R. P. Hall (2012). *Administrative & Regulatory News* 37(3):21-23, American Bar Association.

9. "The Importance of Regulation-Induced Innovation for Sustainable Development". 2011. *Sustainability*. Available at <http://www.mdpi.com/journal/sustainability>
10. "Rethinking the Role of Information in Chemicals Policy: Implications for TSCA and REACH", Lars Koch and Nicholas A. Ashford, *Journal of Cleaner Production* 14(1): 31-46 2006. Revised version published in *Environmental Law Network International* 2(2005):22-37. Available at <http://hdl.handle.net/1721.1/38476> Revised version published in *Environmental Law Network International* 2(2005):22-37. Available at <http://hdl.handle.net/1721.1/55292>
11. "Implementing the Precautionary Principle: Incorporating Science, Technology, Fairness, and Accountability in Environmental, Health, and Safety Decisions" *International Journal of Risk Assessment and Management*, 5(2/3/4):112-124, 2005. Based on an article found in *Int J Occup Med Environ Health*, 2004; 17(1): 59-67 and reprinted in *Human and Ecological Risk Assessment* 2005; 11(1): 85-96. Available at <http://hdl.handle.net/1721.1/38477>
12. 76. "Scientific, Ethical and Legal Challenges in Work-Related Genetic Testing in the United States," *Eur. J. Oncol. Library*, 4: 33-59, 2005. Available at <http://hdl.handle.net/1721.1/38478>
13. "Major Challenges To Engineering Education For Sustainable Development: What Has To Change To Make It Creative, Effective, And Acceptable To The Established Disciplines", Presented at the Conference on Engineering Education in Sustainable Development, 24-25 October 2002, Delft, The Netherlands. Expanded version in *International Journal of Sustainability in Higher Education* 3(4): 2004. Available at <http://hdl.handle.net/1721.1/38479>
14. "The Feasibility of Encouraging Inherently Safer Production in Industrial Firms". Zwetsloot, GIJM and Ashford NA, *Safety Science* 2003; 41(2/3):210-240. **Available at** <http://hdl.handle.net/1721.1/1581>
15. "Pathways To Sustainable Industrial Transformations: Cooptimising Competitiveness, Employment, And Environment\* Presented at the Conference on Engineering Education in Sustainable Development, 24-25 October 2002, Delft, The Netherlands. <http://hdl.handle.net/1721.1/41844>
16. "Technology-Focused Regulatory Approaches For Encouraging Sustainable Industrial Transformations: Beyond Green, Beyond The Dinosaurs, And Beyond Evolutionary Theory", Presented at the 3<sup>rd</sup> Blueprint Workshop on Instruments for Integrating Environmental and Innovation Policy, 26-27 September 2002, Brussels.

17. "The Crisis in U.S. and International Cancer Policy" S. S. Epstein, N. A. Ashford, B. Blackwelder, G. Cohen, E. Goldsmith, A. Mazzocchi, and Q. D. Young, *International Journal of Health Services*, 32(4): 669-707, 2002. at <http://hdl.handle.net/1721.1/38480>
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