

## **MIKE ATKIN**

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### **September 2009**

#### **Education**

B. S. (Chemistry)	City College of New York, 1947
M. A. (Science Education)	New York University, 1948
Ph.D. (Science Education)	New York University, 1956

#### **Major Positions**

Ramaz School, New York City, 1948-50  
Junior and Senior High School Teacher of General Science, Biology, Chemistry

Great Neck (New York) Public Schools, 1950-55  
Elementary-School Science Teacher

College of Education, University of Illinois at Urbana-Champaign, 1955-1979  
Assistant Professor of Science Education, 1955-57  
Associate Professor of Science Education, 1957-60  
Professor of Science Education, 1960-79  
Associate Dean for Research, 1966-70  
Dean, 1970-79

School of Education, Stanford University, Stanford, California, 1979-  
Professor of Education, 1979-2004; Dean, 1979-86; Emeritus Professor, 2004-

#### **Publications**

*Books, Book Chapters, Reports, and Monographs:*

1. (with R. Will Burnett), **Elementary School Science Activities Series**  
*Air, Winds, and Weather*, 1958  
*Electricity and Magnetism*, 1958  
*Working with Animals*, 1959

- Working with Plants*, 1959  
New York: Holt, Rinehart, and Winston
2. (with J. D. Barnard, C. B. Stendler, B. V. Spock), Books 5 and 6, **Science for Tomorrow's World**. New York: The Macmillan Company, 1959, 1962, 1966.
  3. "Teaching Science," Chapter 12 in **Modern Methods in Elementary Education** (M. M. Ohlsen, ed.). New York: Holt, Rinehart, and Winston, 1959.
  4. (with staff of the Elementary-School Science Project)  
**Charting the Universe**  
**The Universe in Motion**  
**Gravitation**  
**The Message of Starlight**  
**The Life Story of a Star**  
**Galaxies and the Universe**  
New York: Harper and Row, 1969.
  5. "Federal, Local and In-Between," Chapter 15 in **Freedom, Bureaucracy, and Schooling** (Vernon F. Haubrich, ed.) 1971 Yearbook of the Association for Supervision and Curriculum Development, Washington, D.C.
  6. "Curriculum Design: The Central Development Group and the Local Teacher" in **IPN Symposium 1970 über Forschung und Entwicklung naturwissenschaftlicher Curricula**. Institut für die Pädagogik der Naturwissenschaften an der Christian-Albrechts-Universität, Kiel, 1971, pp. 35-43. (Also in Danish as "Curriculumdesign: centraliseret planlægning og den enkelte lærer", *Pædagogik*, Vol. 4, No. 1, 1974, pp. 43-52. Gjellerups, Copenhagen.)
  7. Director, Ginn Science Program, a Kindergarten - Grade 8 comprehensive science program including books for children at each grade level, teacher's guides, film strips, equipment kits, charts, etc. Developed by a team of fourteen scientists, science teachers, writers, and designers. Lexington: Ginn and Co., 1973, 1975, 1980.
  8. "Governmental Roles," Chapter 6 in **New Perspectives on Teacher Education** (Donald J. McCarty, ed.). San Francisco: Jossey-Bass, 1973.
  9. (With James J. Raths) "Changing Patterns of Teacher Education" in **New Patterns of Teacher Education and Tasks: United States**. Paris: Organization for Economic Cooperation and Development, 1974 (pp. 3-66). (Excerpt in Louis Rubin, **In-service Education of Teachers**. Boston: Allyn and Bacon, 1978, pp. 226-234.)
  10. "Grass-roots Change and Informal Methods," Chapter 11 in **Studies in Open Education**. (Bernard Spodek and Herbert J. Walberg, eds.) New York: Agathon Press, 1975.

11. “Professional Leadership and PBTE,” Chapter 1 in **Regaining Educational Leadership: Critical Essays on PBTE/CBTE, Behavioral Objectives, and Accountability** (Ralph A. Smith, ed.). New York: John Wiley and Sons, 1975.
12. “Reflections on Curriculum Change: An American View,” Chapter 3 in **Handbook on Curriculum Development**. Paris: Organization for Economic Cooperation and Development, 1975 (pp. 160-66).
13. **The Government in the Classroom** (Ninth Sir John Adams Lecture). London: University of London Institute of Education, 1980.
14. “Professors and Teachers: A House Divided,” Chapter 6 in **Critical Issues in Educational Policy – an Administrator’s Overview** (Louis Rubin, ed.). Boston: Allyn and Bacon, 1980.
15. (with Maurice Kogan) **Legitimizing Educational Policy: The Use of Special Committees in Formulating Policies in the USA and the UK**. Stanford: Institute for Research on Educational Finance and Governance, Report No. 82-A17, July 1982, 112 pp. (Also in Don S. Anderson and Bruce J. Biddle, eds., **Knowledge for Policy: Improving Education through Research**. London and New York: Falmer Press, 1991.)
16. “Changing Our Thinking About Educational Change,” Chapter 3 in **Challenge to American Schools: The Case for Standards and Values**. (John H. Bunzel, ed.). New York: Oxford University Press, 1985.
17. “Reexamining the University's Role in Educating Teachers,” Chapter 2 in **Strengthening Teacher Education** (C. Peter Magrath and Robert L. Egbert, eds.). San Francisco: Jossey-Bass, 1987.
18. **Education at the National Science Foundation: Some Historical Considerations and Today’s Challenges**. Stanford: Center for Educational Research at Stanford, Report 88-CERAS-08, March 1988, 21 pp.
19. (with Donald Kennedy and Cynthia L. Patrick) **Inside Schools: A Collaborative View**. London and New York: Falmer Press, 1989, 146 pp.
20. (with Ann Atkin) **Improving Science Education through Local Alliances: A Report to Carnegie Corporation of New York**. Santa Cruz, CA: Network Publications, 1989, 157 pp.
21. “Foreword,” in **Beyond the Handshakes: An Examination of University-School Collaboration** (Thomas J. Karwin, ed.) Long Beach: California State University, California Academic Partnership Program, 1992, pp.vii-xi.

22. “Teacher Research to Change Policy,” Chapter 6 in **Teacher Research and Educational Reform** (Sandra Hollingsworth and Hugh Sockett, eds.) 93<sup>rd</sup> Yearbook of the National Society for the Study of Education, Part I. Chicago: University of Chicago Press, 1994.
23. “Developing World-Class Education Standards: Some Conceptual and Political Dilemmas,” Chapter 6 in **The Future of Education: Perspectives on National Standards in America** (Nina Cobb, ed). New York: College Entrance Examination Board, 1994.
24. (with Allan Feldman), “Embedding Action Research in Professional Practice,” in **Educational Action Research** (S. Nofke and R. Stevenson, eds.) New York: Teachers College Press, 1995.
25. (co-editor, with Paul Black), **Changing the Subject: Innovations in Science, Mathematics, and Technology Education**. London and New York: Routledge (with the Organization for Economic Cooperation and Development, Paris), 1996, 229 pp.
26. “Searching for World-Class Educational Standards,” in **Education in a Research University** (Kenneth J. Arrow, Richard W. Cottle, B. Curtis Eaves, Ingram Olkin, eds.) Stanford: Stanford University Press, 1996, pp. 161-170.
27. (with Jeremy Kilpatrick, Julie A. Bianchini, Jenifer V. Helms, Nicole I. Holthuis), “Changing Conceptions of Science, Mathematics, Teaching, and Learning,” Chapter 3 in **Bold Ventures, Vol. 1, Patterns of U.S. Innovations in Science and Mathematics Education** (Senta A. Raizen and Edward D. Britton, eds.). Dordrecht, Boston, London: Kluwer Academic Publishers, 1996.
28. (with Jenifer V. Helms, Gerald L. Rosiek, Suzanne Siner), “Building on Strength: Changing Science Teaching in California Public Schools,” Chapter 1 in **Bold Ventures, Vol. 2, Case Studies of U.S. Innovations in Science Education** (Senta A. Raizen and Edward D. Britton, eds.). Dordrecht, Boston, London: Kluwer Academic Publishers, 1996.
29. (with Julie A. Bianchini and Nicole I. Holthuis), “The Different Worlds of Project 2061,” Chapter 2 in **Bold Ventures, Vol. 2, Case Studies of U.S. Innovations in Science Education** (Senta A. Raizen and Edward D. Britton, eds.). Dordrecht, Boston, London: Kluwer Academic Publishers, 1996.
30. “El Proyecto De La OCDE Sobre Las Innovaciones En La Enseñanza de Las Ciencias, Las Matemáticas y La Tecnología,” in **La Cultura Científica, un Reto Educativo Evaluación de La Reforma Educativa en La Secundaria Obligatoria** (María José Sáez Brezmes, ed.) Madrid: Editorial La Muralla, pp. 11-24, 1997.
31. “Assuring Education Quality in the United States,” in **Möglichkeiten und Grenzen der Qualitätsevaluation und Qualitätsentwicklung im Schulwesen: Bildungsforschung des Bundesministeriums Für Unterricht Und Kulturelle Angelegenheiten (12)**. (Peter

- Posch and Herbert Altrichter, eds.) Innsbruck and Vienna: STUDIENVerlag, September 1997, pp. 300-312.
32. (co-editor, with Paul Black), **Matemática, Ciencia y Tecnología: Innovaciones Educativas**. Mexico, D. F.: Grupo Editorial Iberoamerica, 1997. (Translation of **Changing the Subject**, No. 25 above)
  33. “Social Change, Subject Matter – and the Teacher,” Chapter 6 in **Images of Educational Change** (Herbert Altrichter and John Elliott, eds.). Buckingham and Philadelphia: Open Press, 2000, pp. 75-83.
  34. (co-editor, with Paul Black and Janet Coffey), **Classroom Assessment and the National Science Education Standards**. Washington, DC: National Academy Press, 2001.
  35. “Student Autonomy and Teacher Input,” Chapter 5 in **A Love of Discovery: Science Education – the Second Career of Robert Karplus** (Robert G. Fuller, ed.). New York: Kluwer Academic/Plenum Publishers, 2002.
  36. “Using Assessment to Help Students Learn,” Chapter 9 in **Learning Science and the Science of Learning** (Rodger Bybee, ed.). Arlington, VA: National Science Teachers Association, 2002.
  37. (co-editor, with Janet Coffey), **Everyday Assessment in the Science Classroom**. Arlington, VA: National Science Teachers Association, NSTA Press, 2003.
  38. (with Paul Black), **Inside Science Education Reform: A History of Curricular and Policy Change**. New York: Teachers College Press, 2003. (also Buckingham, England: Open University Press, 2003).
  39. (with Janet E. Coffey, Savitha Moorthy, Mistilina Sato, Mathew Thibeault, **Designing Everyday Assessment in the Science Classroom**. New York: Teachers College Press, 2005
  40. (with Paul Black), “History of Science Curriculum Reform in the United States and the United Kingdom,” Chapter 26 in **Handbook of Research on Science Education** (S. K. Abell and N. G. Lederman, eds.). Mahwah, NJ: Lawrence Erlbaum, 2007.

*Papers in Refereed Research and Professional Journals:*

1. “Needed: Elementary School Science Consultants,” *The Science Teacher*, Vol. 24, No. 6, 270-272+, October 1957.

## Atkin Résumé

2. "Elementary School Science Programs: Appraisal and Recommendations," *Improving Science Programs in Illinois Schools* (W.O. Stanley, ed.), Urbana: University of Illinois Press, 1958, pp. 38-44.
3. "The University of Illinois' Role in Improving Science Teaching in the Elementary School," *Improving Science Programs in Illinois Schools* (W. O. Stanley, ed.), Urbana: University Illinois Press, 1958, pp. 62-67.
4. "A Study of Formulating and Suggesting Tests for Hypotheses in Elementary School Science Learning Experiences," *Science Education*, Vol. 42, No. 5, pp. 414-422, December 1958.
5. "The Elementary-School Science Curriculum," *The Science Teacher*, Vol. 27, No. 2, pp. 51-54, March 1960.
6. "Critique -- 'Rethinking Science Education,'" *The Science Teacher*, Vol. 27, No. 4, pp. 9-10, May 1960.
7. "Teaching Concepts of Modern Astronomy to Elementary School Children," *Science Education*, Vol. 45, No. 1, February 1961.
8. "The University of Illinois Elementary-School Science Project," *Elementary-School Science Bulletin*, Issue No. 66, December 1961.
9. (with Robert Karplus), "Discovery or Invention?" *The Science Teacher*, Vol. 29, No. 5, pp. 45-51, September 1962. (Also in four books of readings including Edward Victor and Marjorie Lerner, **Readings in Science Education for the Elementary School**, Macmillan, 1967.)
10. "Some Evaluation Problems in a Course Content Improvement Project," *Journal of Research in Science Teaching*, Vol. 1, pp. 129-132, 1963. (Also in seven books of readings, including James J. Gallagher, **Teaching Gifted Students**, Allyn and Bacon, 1965.)
11. "Science in the Elementary School," *Review of Educational Research*, Vol. 34, No. 3, pp. 263-272, June 1964.
12. "A Role for the University in Science Curriculum Improvement at the Elementary-School Level," **Current Issues in Higher Education**, 1964, pp. 149-152, Association for Higher Education, Washington, D. C.
13. "Science Education: 'Process' and 'Content' in Grade Schools," (letter), *Science*, Vol. 151, No. 3714, p. 1033, 4 March 1966.
14. "Basing Curriculum Change on Research and Demonstration," *Educational Forum*, Vol. 31, No. 1, pp. 27-33, November 1966.

15. "The Federal Government, Big Business, and Colleges of Education," *Educational Forum*, Vol. 31, No. 4, pp. 391-402, May 1967.
16. "Research Styles in Science Education," *Journal of Research in Science Teaching*, Vol. 5, No. 4, pp. 338-345, 1967-68. (Also in four books of readings including R. C. Anderson, et al, **Current Research in Instruction**, Prentice-Hall, 1969.)
17. "A Critical Look at 'Process' in Science Education," *The EPIE Forum* (Educational Products Information Exchange), Vol. 1, Nos. 8-9, pp. 6-10, April-May 1968.
18. "Behavioral Objectives in Curriculum Design: A Cautionary Note," *The Science Teacher*, Vol. 35, No. 5, pp. 27-30, May 1968. (Also in eight books of readings including R. C. Anderson et al, **Current Research on Instruction**, Prentice-Hall, 1969; B. R. Worthen and J. R. Sanders, **Educational Evaluation**, Jones, 1973; David Hamilton, et al, **Beyond the Numbers Game**, McCutchan, 1977).
19. (With R. Will Burnett), "Science Education," **Encyclopedia of Educational Research** (Fourth Edition). New York: The Macmillan Co., 1969, pp. 1192-1206.
20. "On Looking Gift Horses in the Mouth: The Federal Government and the Schools," *Educational Forum*, Vol. 34, No. 1, pp. 9-20, November 1969.
21. "The Kerner Commission Report and Educational Change," in **The Kerner Report Revisited**. Urbana: Institute of Government and Public Affairs, 1970, pp. 25-30.
22. "Science Teaching: Innovations," **Encyclopedia of Education**. New York: The Macmillan Co., 1971, Vol. 8, pp. 134-137.
23. "Distinction With Distinctiveness," (letter) *Educational Researcher*, Vol. 1, No. 2, p. 2, February 1972.
24. "Teachers' Dilemma," **Annual Education Review**, *New York Times*, 8 January 1973, p. 55.
25. "Practice Oriented Inquiry: A 'Third Approach' to Research in Education" (Editorial), *Educational Researcher*, Vol. 2, No. 7, pp. 3,4, July 1973.
26. "The Rhetoric and the Reality of Educational Change," *Educational Technology*, Vol. 13, No. 11, pp. 16-19, November 1973.
27. "Grouchy Marx," (Review of Alain Touraine's **The Academic System in American Society**), *Universities Quarterly* (UK), Vol. 29, No. 1, pp. 118-121, Winter 1974.
28. "Colleges of Education and the Organized Teaching Profession: A Troubled Relationship," *New York University Education Quarterly*, Vol. 7, No. 4, pp. 8-13,

- Summer 1976. (An abridged version in *Education Digest*, Vol. 42, No. 3, pp. 58-61, November 1976.)
29. "A 'New Evaluation' Perspective for Professors of Education," in **The Professor of Education: An Assessment of Conditions**, Society of Professors of Education, College of Education, University of Minnesota, Minneapolis, 1975, pp. 81-84.
  30. "The Antagonism of the Intellectual," (Review of Everett Carll Ladd, Jr. and Seymour Martin Lipset's **The Divided Academy: Professors and Politics**), *New Universities Quarterly* (UK), Vol. 30, No. 4, Autumn 1976, pp. 490-5.
  31. "Ph.D.'s and Education Policy" (Editorial), *Educational Researcher*, Vol. 7, No. 4, April 1978.
  32. "Institutional Self-Evaluation Versus National Professional Accreditation or Back to the Normal School?" *Educational Researcher*, Vol. 7, No. 10, pp. 3-7, November 1978.
  33. "Competency Tests...Do They Do More Harm Than Good?" *Illinois Alumni News*, Vol. 58, No. 1, p. 16, January 1979.
  34. "Education Accountability in the United States," *Educational Analysis* (U.K.) Vol. 1, No. 1, pp. 5-21, Summer 1979.
  35. "The Government in the Classroom," *Dædalus*, (Issue title: "The End of Consensus?"), Vol. 109, No. 3, pp. 85-97, Summer 1980. (Also published by University of London Institute of Education as the Ninth Sir John Adams Lecture and reprinted by the Ethics and Public Policy Center, Washington, D.C. with the title "Washington vs. the Public Schools.")
  - 36.. "External Forces and the Instructional Program," *California School Boards*, Vol. 39, No. 6, pp. 3-9, September 1980.
  37. "Who Will Teach in High School?" *Dædalus* (Issue title "America's Schools: Public and Private"), Vol. 110, No. 3, pp. 91-103, Summer 1981.
  38. Review of Neil J. Smelser and Robin Content's **The Changing Academic Market**, *Studies in Higher Education* (UK), Vol. 6, No. 2, pp. 192, 193, 1981.
  39. (with Ernest R. House), "The Federal Role in Curriculum Development, 1950-1980," *Educational Evaluation and Policy Analysis*, Vol. 3, No. 5, pp. 5-36, September - October 1981.
  40. Review Article: Harry Judge, **American Graduate Schools of Education: A View from Abroad**, *Oxford Review of Education*, (UK), Vol. 9, No. 1, pp. 63-69, 1983.



41. "The Improvement of Science Teaching," *Dædalus*, (Issue title: "Scientific Literacy"), Vol. 112, No. 2, pp. 167-187, Spring 1983.
42. "Preparing To Go To The Head of The Class," *Basic Education: Issues, Answers, and Facts*, Vol. 1, No. 3, 1985.
43. "Complexity," *Stanford Magazine*, (A response to the question, "What Is the Question?"). Vol. 14, No. 4, Winter 1986.
44. Review Article: "HM Inspectorate Reports on Initial Teacher Training, Department of Education and Science," *Studies in Higher Education*, (UK) Vol. 12, No. 2, pp. 229-232, 1987.
45. Review Article: "Her Majesty's Inspectorate" (Review of Denis Lawton and Peter Gordon, **HMI**), *Oxford Review of Education* (UK), Vol. 14, No. 2, pp. 257-262, 1989.
46. (with Bruce B. King), Review Article: Landon E. Beyer and Michael W. Apple (eds), **The Curriculum: Problems, Politics, and Possibilities**, *Journal of Curriculum Studies*, Vol. 21, No. 5, pp. 471-475, 1989.
47. "Can Educational Research Keep Pace with Education Reform?" *Phi Delta Kappan*, Vol. 71, No. 8, pp. 200-205, November 1989. (An abridged version, "Why Educational Research Can't Keep Up with Reform," in *Education Digest*, Vol. 55, No. 8, April 1990, pp. 3-7.)
48. "On 'Alliances' and Science Education," *Education Week* (Commentary), Vol. 9, No. 29, 11 April 1990, p. 36.
50. Review Article: "Research and Reform in Science Education: A Dilemma?" (Review of Peter J. Fensham, ed., **Development and Dilemmas in Science Education**), *Studies in Science Education*, Vol. 18, 1990, pp. 159-164.
51. "Teach Science for Science's Sake; For Global Competitiveness, Try Technology," *Education Week* (Commentary), Vol. 10, No. 4, 26 September 1990, p. 32.
52. "Teaching as Research: An Essay," *Teaching and Teacher Education*, Vol. 8, No. 4, August 1992, pp. 381-390.
53. "Developments in the Philosophy/Sociology of Science and Action Research," *Educational Action Research: an International Journal*, Vol. 1, No. 1, 1993, pp. 187-188.
54. (with Allan Feldman), "Research in Science Education in the USA," *Journal of Curriculum Studies*, Vol. 25, No. 3, 1993, pp. 281-289.
55. (with Jenifer Helms), "Getting Serious about Priorities in Science Education," *Studies in Science Education*, Vol. 21, 1993, pp. 1-20.

56. Review Article: "European Union?" (Review of P. J. Linjnse, ed., **European Research in Science Education: Proceedings of the First Ph.D. Summer School**) *Studies in Science Education*, Vol. 25, 1995, pp. 311-316.
57. "El Papel de los Científicos en la Reforma Curricular: El Proyecto 2061," *Revista De Educación, 310: Innovaciones en las enseñanza de las ciencias*. Madrid: Ministerio de Educación y Cultura, 1996.
58. (with Paul Black), "Policy Perils of International Comparisons: The TIMSS Case," *Phi Delta Kappan*, Vol. 79, No. 1, 1997, pp.22-28.
59. "Applying Historic Lessons to Current Educational Reform," prepared for the National Academy of Sciences Symposium commemorating the 40<sup>th</sup> Anniversary of the launching of Sputnik I, October 4, 1997, Washington, DC.  
<http://www.nas.edu/sputnik/atkin.htm> (+ [atkin2.htm](#) + [atkin3.htm](#)).
60. "Sustaining Partnerships: Some New Challenges and Opportunities," *On Common Ground*, No. 8, Winter 1998, pp. 11, 12.
61. "Comments on the ICSU (International Council of Scientific Unions) Programme on Capacity Building in Science," *Studies in Science Education*, Vol. 31, 1998, pp. 92-96.
62. "The OECD Study of Innovations in Science, Mathematics, and Technology Education," *Journal of Curriculum Studies*, Vol.30, No.6, 1998, pp. 647-660.
63. Review article: "How Science Teachers Lose Power" (Review of J. F. Donnelly and E. W. Jenkins, **Science Education: Policy, Professionalism and Change**. London: Paul Chapman Publishing, 2001) *Studies in Science Education*, Vol. 37, 2002, pp. 163-171.
64. "Swimming Upstream: Relying on Teachers' Summative Assessments," *Measurement: Interdisciplinary Research and Perspectives*, Vol. 5, No. 1, 2006, pp. 1-4.
65. (with Mistilina Sato), "Supporting Change in Classroom Assessment," *Educational Leadership*, Vol. 64, No. 4, December 2006/January 2007, pp. 76-79.
66. "What Role for the Humanities in Science Education Research?" *Studies in Science Education*, Vol. 43, 2007, pp. 62-87.

### Other Professional Activities

Science Writer, Scholastic Magazines, 1952-53

Consultant, Coronet Films, 1958-1979

## Atkin Résumé

Editorial Advisory Board, *Elementary-School Science Bulletin*, published by the National Science Teachers Association), 1959-60

Director, Experimental Summer Institute in Science for Elementary-School Personnel supported by the National Science Foundation at the University of Illinois, 1959

Co-director (with Professor J. Richard Suchman), "Teaching Modern Science Concepts to Elementary-School Children" (supported by University of Illinois Research Board), 1958-59

Co-director (with Professor Stanley P. Wyatt, Jr.), Elementary-School Science Project, a course content improvement project in astronomy (supported by the National Science Foundation), 1960-68

National Board of Editors, *Nature and Science*, a publication of the American Museum of Natural History, 1964-1970

Fellow, American Association for the Advancement of Science, 1963-

Member of the Council, American Association for the Advancement of Science, representing the American Educational Research Association, 1963-1968

Committeeman-at-large, Section Q (Education), American Association for the Advancement of Science, 1964-1968

Advisory Committee, New York University Conceptually Oriented Program in Elementary Science, 1965-1975

Advisory Committee, Intermediate Science Curriculum Study, Florida State University, 1966-1974

Editorial Associate, American Educational Research Association Monograph Series on Curriculum Evaluation, 1967-1971

Advisory Committee, Science Curriculum Improvement Study, University of California at Berkeley, 1968-1976

Secretary, Section Q (Education), American Association for the Advancement of Science, 1968-1970

President, Council for Elementary Science International, 1969-70

Editorial Board, *Educational Theory*, 1969-70

Recipient, Ford Foundation Award for study of primary education in England, May and June 1969

## Atkin Résumé

Issue Co-Editor, *Review of Educational Research*, Vol. 34, No. 3, June 1964; Vol 39, No. 4, October 1969

Consultant, Ford Foundation, Anglo-American Primary Education Project, 1969-1971

Board of Directors, National Association for Research in Science Teaching, 1970-1972

Consultant on Planning for the National Institute of Education, Department of Health, Education, and Welfare, 1971

Director, International Seminar on Curriculum Development Styles, University of Illinois (supported by the National Science Foundation), 1971

Executive Board, American Educational Research Association, 1972-1975

Consultant, Organization for Economic Cooperation and Development, Paris, several seminars and projects in Europe and Japan since 1970, including **Handbook on Curriculum Development** project (1973) and a major study of curriculum reform in member countries (1988-2000)

Recipient (with four colleagues), Ford Foundation grant to study educational policy formulation in five Western European countries, 1973-76. (My responsibilities focused on the United Kingdom.)

Chairman, Section Q (Education), American Association for the Advancement of Science, 1973

Advisory Committee for Science Education, National Science Foundation, 1973-1976

Member, State of Illinois Teacher Certification Board, 1973-1976

Chairman, Committee on Governmental and Professional Liaison, American Educational Research Association, 1975-1977

Board of Editorial Advisors, *Educational Researcher*, 1978-1979

Witness, U. S. Senate Committee on Governmental Affairs, S991 (establishment of the Department of Education), April 1978

U. S. Consultant Editor, **World Yearbook of Education**, London: Kogan Page, Ltd., 1978-1980

Member, 13-person delegation invited by the Ministry of Education, People's Republic of China, to study Chinese pre-college science education and develop recommendations, June and July, 1979

## Atkin Résumé

Ninth Sir John Adams Lecturer, University of London Institute of Education (Title of presentation: “The Government in the Classroom”), 6 March 1980.

National Panel on the High Schools, Carnegie Foundation for the Advancement of Teaching, 1980-1983

Distinguished Alumnus Award, New York University, School of Education, 1984

Task Force on the Teaching Profession, Committee for Economic Development (“Investing in Our Children: Business and the Public Schools”), 1984-1985

Advisory Committee for Science and Engineering Education, National Science Foundation, 1984-1986; Vice Chairman, 1985-1986

National Commission for Excellence in Teacher Education, 1984-85

Senior Advisor to the National Science Foundation, Directorate for Science and Engineering Education, 1986-1987

Mathematical Sciences Education Board; National Research Council, National Academy of Sciences, 1985-1989

Trustees' Visiting Committee, School of Education, University of Rochester, 1985-1987

Visiting Scholar, People's Republic of China, Sponsored by the Committee on Scholarly Communication with the People's Republic of China, National Academy of Sciences/National Research Council, April and May, 1987.

Project Director, Study of Collaboration among Public Schools, Universities, and Industry to Improve Education in the Sciences (supported by Carnegie Corporation), 1987-1992.

Witness, House of Representatives Committee on Science, Space, and Technology (National Science Foundation Re-authorization), 22 March 1988

Committee on Science, Mathematics, and Engineering Education, Sigma Xi, 1989-94; Chair, 1991-94.

Lecturer, Invitational Program of the National Science Council, Republic of China (Taiwan), April 1989

Co-Chair (with Paul Black, King's College, University of London), International Steering Committee, OECD Study of Innovations in Science, Mathematics, and Technology Education in Member Countries. Co-principal investigator for the U. S. phase of the study (supported by the National Science Foundation and the U. S. Department of Education), 1989-1996.

Chair, Nominating Committee, American Educational Research Association, 1990.

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Consensus Planning Committee, National Assessment of Educational Progress in Science (1994), 1990-91.

National Committee on Science Education Standards and Assessment (NCSESA); National Research Council, National Academy of Sciences, 1992-1995

Associate Editor, *Educational Action Research: an International Journal*, 1992-2000.

Evaluator (with Inverness Research Associates) of YouthALIVE!, an initiative supported by the DeWitt Wallace-Readers Digest Fund to expand programs for under-served youth in about 35 children's and science museums, 1992-1994.

National Standards Committee: Technology for All Americans; International Technology Education Association, 1994-2000.

Consultant, Improving Education Quality Project, University of Durban Westville, South Africa, August-September, 1994.

Evaluator, LITES (Leadership Institute for Teaching Elementary Science), an initiative of Mills College to improve science teaching in Oakland, California, 1995-1998

Advisory Board, Institute for Inquiry, The Exploratorium, 1995-

Formation Committee, Center for Learning, The Tech Museum of Innovation (San Jose), 1996-

Committee on Science Education K-12 (COSE K-12). National Research Council, National Academy of Sciences, 1996-2002; vice-chair, 1998-99; chair, 1999-2002.

Consultant, "Beyond 2000," a project supported by the Nuffield Foundation to develop a framework for the next national science curriculum in England and Wales, 1998.

Principal Evaluator, Triad, a gender-equity initiative of the University of California at San Francisco in collaboration with the San Francisco Unified School District to enhance the interests of middle-school girls in science, supported by the National Science Foundation, 1998-2002

Evaluator, Yosemite National Institutes educational programs, 1998-2002

Principal Investigator, Classroom Assessment Project to Improve Teaching and Learning (CAPITAL), a four-year research project supported by the National Science Foundation, 2000-2004.

Chair, Committee on Classroom Assessment and the *National Science Education Standards*, Center for Education. National Research Council, National Academy of Sciences, 1999-2001.

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National Associate, National Academy of Sciences, 2001 (lifetime appointment)

Chair, Committee on Assessment in Support of Instruction and Learning: Bridging the Gap Between Large-Scale and Classroom Assessment. National Research Council, National Academy of Sciences, 2002-2003

Committee on Test Design for K-12 Science Achievement. *Science Assessment Systems in Support of Student Learning*. National Research Council, National Academy of Sciences, 2003-2005.

Principal Evaluator, Quattro, an initiative of the University of California at San Francisco, in cooperation with the San Francisco Unified School District, to assist English-language learners at the elementary-school level to learn science, supported by the National Institutes of Health, 2004-2007

Planning Committee, 2009 National Assessment of Educational Progress (NAEP) in Science, 2004-2005.

Steering Committee, State of Washington Standards for Science, Kindergarten – Grade 12, 2009.