

## CURRICULUM VITAE

JOHN DAVID JACKSON

**Born:** 19 January 1925, in London, Ontario, Canada

**Citizenship:** Naturalized U.S. citizen, San Francisco, April 12, 1988

**Education:** B.Sc., 1946, Honors Physics and Mathematics, University of Western Ontario  
Ph.D., 1949, Physics, Massachusetts Institute of Technology

### Professional Experience

#### Academic Appointments:

1 Jul 1949 - 31 Dec 1949: Research Associate, Massachusetts Institute of Technology

1 Jan 1950 - 30 Jun 1957: Assistant, then Associate Professor of Mathematics,  
McGill University, Montreal

1 Jul 1957 - 30 Jun 1967: Associate Professor (57-58), Professor (58-67) of Physics,  
University of Illinois, Urbana-Champaign

1 Jul 1967 - 31 Dec 1992: Professor of Physics, University of California at Berkeley

1 Jan 1993 - present: Professor Emeritus of Physics, University of California, Berkeley

1 Jul 1978 - 30 Jun 1981: Chairman, Department of Physics, U. C. Berkeley

#### Other Appointments and Fellowships:

John Simon Guggenheim Fellow, Princeton University (1956-57)

Consultant, Space Technology Laboratories (Summer 1958, 1959)

Ford Foundation Fellow, Theory Division, European Center for Nuclear Research (CERN)  
(1963-64)

Visiting Researcher, Physics Division, Lawrence Radiation Laboratory (Summer 1966)

Faculty Senior Scientist, Lawrence Berkeley National Laboratory (1967 - 1992)

Visiting Fellow, Clare Hall and Guest Professor, Cavendish Laboratory, University of  
Cambridge (Jan - Jun 1970)

Visiting Scientist, Theory Division, European Center for Nuclear Research (CERN)  
(Summers 1970, 1979, 1984, 1988)

Acting Head, Theoretical Department, Fermi National Accelerator Laboratory (1972-73)

Scientific Associate, Theory Division, European Center for Nuclear Research (CERN)  
(1976-1977)

Editor, Annual Review of Nuclear and Particle Science (1 Jan 1977 - 31 Dec 1993)

Group Leader, Theoretical Physics, Lawrence Berkeley Laboratory (acting, 1970-71;  
1974-76, 1977-78)

Scientific Associate, Theory Division, European Center for Nuclear Research (CERN)  
(Jun-Dec 1981)

Associate Director and Head of Physics Division, Lawrence Berkeley Laboratory (1 Jan  
1982 - 30 Jun 1984)

Deputy Director for Operations, URA/SSC Central Design Group (Oct 1984 - Aug 1987)

Visiting Senior Research Fellow, Jesus College, University of Oxford (1988-89)

Visiting Fellow (SERC), Department of Theoretical Physics, University of Oxford  
(1988- 89)

Participating Retiree, Lawrence Berkeley National Laboratory (Feb 1993 - present)

**Awards and Honors:**

Member, National Academy of Sciences (1990)  
Member, American Academy of Arts and Sciences (1989)  
D. Sc., honoris causa, University of Western Ontario (1989)  
Berkeley Citation, University of California at Berkeley (1993)  
Distinguished Teaching Award, University of California at Berkeley (1986)  
Fellow, American Physical Society  
Fellow, American Association for the Advancement of Science

**External advisory panels and committees:**

Users Advisory Committee, Argonne National Laboratory (1964-1966)  
Editorial Board, Il Nuovo Cimento (1965-66)  
Visiting Board, Harvard-MIT Cambridge Electron Accelerator (1968 - 1973 )  
Associate Editor, Reviews of Modern Physics (Jul 1968 - Dec 1972)  
Program Advisory Committee, Stanford Linear Accelerator Center (1970-72)  
Bubble-chamber sub-committee, Program Advisory Committee, National Accelerator Laboratory (1970-71)  
Program Advisory Committee, Fermi National Accelerator Laboratory (1972-75)  
Visiting Committee, Department of Physics, Massachusetts Institute of Technology ( 1972-76)  
Chairman, Visiting Committee, Fermilab Theoretical Department ( Sep 1973 - Dec 1974)  
Joint AEC/NSF Committee to Review the ZGS Accelerator ( 1973-74)  
Grants Selection Committee for High-Energy Physics, National Research Council of Canada (1973-76)  
On-Site Evaluation Committee for Physics Department, University of California, Santa Barbara (May-Jun 1974)  
Walker Panel on ZGS Shutdown, Argonne National Laboratory, ERDA-NSF (May-Aug 1976)  
AUA Review Committee for the ZGS Complex, Argonne National Laboratory (1976- 1978)  
Intersecting Storage Ring Committee, European Center for Nuclear Research (CERN), Standing Guest (non-voting) (1976-1977)  
URA Visiting Committee for Fermilab (Mar 1979- Mar 1983; Chair, 1980-83)  
1980 HEPAP Sub-Panel on Future Facilities (Treiman Panel) (Jan 1980-Jul 1980)  
Consultant, Isabelle Project, Brookhaven National Laboratory (Summer 1980)  
Scientific Policy Committee, Stanford Linear Accelerator Center (Jul 1980-Jun 1984)  
Committee on International Freedom of Scientists, American Physical Society (1982-84)  
US-Japan Committee for Cooperation in High Energy Physics ( 1982-1984)  
High Energy Physics Advisory Panel of DOE and NSF (Jan 1982- Mar 1986)  
1983 HEPAP Sub-Panel on Future Facilities (Wojcicki Panel) (Feb 1983-Aug 1983)  
Super Proton Synchrotron Committee, CERN, Guest Member (Jul-Sep 1983)  
Outside Review Panel, Physics Department, University of British Columbia, Vancouver, B.C. (Feb 1987)  
Panofsky Prize Committee, American Physical Society (Apr 1987 - Mar 1988)

Board of Electors for the Wykeham Professorship of Physics, University of Oxford  
(Jan - May 1989)  
SSC Laboratory Program Advisory Committee (Nov 1989 - Dec 1992)  
J. J. Sakurai Prize Committee, American Physical Society (Member, 1990, Chair, 1991)  
Contemporary Physics Education Project (1990-93)  
International Advisory Committee, 1993 Conference on the Bubble Chamber and  
Its Contributions to Particle Physics, CERN, July 1993 (Nov 1991- Jul 1993)  
Consultant to Oak Ridge National Laboratory (1992-93)  
International Advisory Committee, Journées Maxwell Conference, CEA/CESTA,  
1992-93  
Advisory Board on TRIUMF, National Research Council of Canada (1992-1996)  
First Harold M. Cave Memorial Lecturer and Visiting Scholar, Physics Department, Queen's  
University, Kingston, Ontario (Sep 30 - Oct 11, 1996)  
Biographical Memoir Coordinator, Section 13 (Physics), National Academy of Sciences  
(May 1996-Apr 2000)  
Comstock Prize Committee, National Academy of Sciences (1997, 1998; chair, 2003)  
Executive Committee, Forum on History of Physics, American Physical Society  
(Apr 2005 - Apr 2008)

**Publications:**

*Physics of Elementary Particles*, Princeton University Press, 135 p., 1958  
*Classical Electrodynamics*, John Wiley, N.Y., 641 p., 1962  
*Mathematics for Quantum Mechanics*, W. A. Benjamin, N.Y., 97 p., 1962;  
Reprinted, Dover Publications, N.Y., 2006  
*Classical Electrodynamics*, 2nd edition, John Wiley, N.Y., 880 p., 1975  
*Classical Electrodynamics*, 3rd edition, John Wiley, N.Y., 808 p., 1998  
plus  
Chapters in the proceedings of summer schools:  
Scottish Universities Summer School in Physics (1960, 1973)  
Brandeis University Summer School (1962)  
Les Houches Summer School (1965)  
Stanford Linear Accelerator Center Summer Institute (1976)

and

Articles in professional journals (See bibliography).

**University of California Committees:**

Physics Department Course Committee (1968-69)  
Physics Department Committee on Graduate Student Support and Policy (1968-70)  
Joint Mathematics-Physics-Chemistry Committee on Courses (1968-70)  
Physics Department Preliminary Examination Committee (Fall 1969; Fall 1970)  
Physics Department Colloquium Committee (1970-71)  
Academic Senate Committee on Academic Freedom (1971-72)  
Joint Regental-Faculty Advisory Committee on Selection of a New Director, Lawrence Berkeley Laboratory (1972-74)  
Physics Department Committee on Policy and New Appointments (1973-75)  
Physics Departmental Representative to Representative Assembly, Academic Senate (1973-75)  
Physics Department Ad Hoc Committee on Minority Admissions (1975-76)  
Physics Department Course Committee (1975-76)  
Physics Department Committee on Policy and New Appointments (1977-78; ex officio, 1978-81; 1982-83)  
Physics Department Committee on Minority Admissions (1977-78)  
Graduate Division Review Committee for Geology and Geophysics (1979-81)  
Chair, Physical Sciences Council, College of Letters and Science (1980-81)  
Chair, Physics Department Colloquium Committee (1983-84)  
Academic Senate Committee on Status of Women and Ethnic Minorities (1983-84)  
Graduate Council (Jan-Dec 1984)  
Director, J. Robert Oppenheimer Center for Theoretical Physics (1985-93)  
Physics Department Preliminary Examination Committee (Fall 1986)  
Chair, Physics Department Distinguished Teaching Awards Committee (1986-88)  
Chair, Physics Department Committee on Faculty Awards (1987-88)  
Chancellor's ad hoc Committee, promotion case (Mar-Apr 1988)  
Chancellor's ad hoc Committee, promotion to tenure (Jan-Feb 1990)  
Chair, Physics Department Distinguished Teaching Awards Committee (1990-91)  
Academic Senate Committee on Academic Planning (1990-91)  
Academic Senate Committee on Budget and Interdepartmental Relations (1991-93)  
Provost's ad hoc Committee, promotion to tenure (Spring 1995)  
Physics Department Committee on Miller Fellow Nominations (1996-97)  
Chancellor's ad hoc Committee, tenure appointment (Aug 1997)  
Chancellor's ad hoc Committee, tenure review (Spring 2001)  
Physics Department Committee on Lawrence Centennial (2001-02)  
Chancellor's ad hoc Committee, tenure appointment (Spring 2002)

**Lawrence Berkeley National Laboratory Committees:**

Bevatron Scheduling Committee (Aug 1967 - Dec 1969)  
Physics Division Staff Committee (Dec 1969 - Fall 1971)  
Physics Division Advisory Committee (Jul 1970 - Jun 1972; chair, 1971-72)  
Chair, Ad-Hoc Committee on Time, Place, and Manner Rules (Summer 1971)  
Chair, Advisory Committee on Free Expression (1971-72)  
Laboratory Scientific Program Council (Nov 1973 - Dec 1974)  
Physics Division Program Review Committee (Sept 1974 - Jun 1976)

Ad Hoc Committee on Formulation of Staff Policy (Spring 1976)  
Laboratory Staff Committee (Sep 1976 - Jun 1978)  
Chair, Search Committee for Head of Physics Division (Dec 1980 - Jun 1981)  
Physics Planning Panel (P<sup>3</sup>) (Jan 1982-June 1984, ex officio)  
Search Committee for Associate Laboratory Director for Planning and Development  
(1983-84)  
Chair, Task Force for Restructuring of Engineering (Feb - Apr 1984)  
Chair, Search Committee for Head of Nuclear Science Division (May 1984 - 1985)  
Laboratory-Faculty Scientific Advisory Committee (Jan 1986 -1988)  
Equal Employment Opportunity Council (Jan 1988 - Dec 1990)  
Physics Division Staff Committee (Apr 1990 - Apr 1992)  
Chair, Search Committee for Head of Physics Division (May - Aug 1991)  
Particle Data Group Steering Committee (1995-96)  
Particle Data Group Search Committee (Oct 1996-Mar 1997)

4 August 2006