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James D. Morrison: Curriculum Vitae

Date of birth:

9 November 1924

Education:

Schools: Morgan and Grove Academies, Dundee;
Lenzie Academy, Lenzie, Scotland

University: Glasgow, 1942–48

Professional qualifications:

B.Sc. (Hons), Chemistry, Glasgow, 1945

Ph.D., Glasgow, 1948

D.Sc., Glasgow, 1958

Academic employment:

1946–1948: Assistant, Chemistry Department, University of Glasgow

1949: Research Officer, Chemical Physics Section, CSIRO

1953: Senior Research Officer, CSIRO

1956: Principal Research Officer, CSIRO

1960: Senior Principal Research Officer, CSIRO

1964–1967: Chief Research Officer, CSIRO

1956–1957: Research Associate, Physics Department, University of Chicago, on CFF

1964: Visiting Professor, Chemistry Department, Princeton University

1971–1972: Visiting Professor, Chemistry Department, University of Utah

1967–1985: Foundation Professor of Physical Chemistry, La Trobe University

1985–1989: Chairman, Department of Chemistry, La Trobe University

1987–1989: Adjunct Professor, Chemistry Department, University of Delaware

1989–present: Professor Emeritus, La Trobe University

1975–present: Adjunct Professor, Chemistry Department, University of Utah

Other appointments and positions:

Member, Australian Research Grants Committee, 1980–1984

Chairman, ARGC Chemistry subcommittee, 1981–1984

Member, Science and Industry Forum, Academy of Science

Member of Sectional Committee 3 of Australian Academy of Science, 1964–1968, 1981–1984

Vice-President, Australian Academy of Science, 1986–1987

Member of La Trobe University Council, 1968–1970

Member, University Academic Board, 1982–1984, 1987–1989

Member of Council, Royal Society of Victoria, president, 1985

Member, La Trobe University Readership committee, 1982–1989

Chairman, Standing Committee for Allocation of Research Equipment Funds, La Trobe University, 1982–1989

Chairman of University Computer Committee, 1968–1985

Chairman of Committee to found third University College, La Trobe University, 1968–1971

Foundation resident Head of Chisholm College, La Trobe University, 1972–1977

National Committee for CODATA and Scientific Information, chairman, 1979–1985

Advisory Editorial Board, *Journal of Chemical Physics*, 1980–1986

Federal Council and Executive of Royal Australian Chemical Institute, 1976–1978

Physical Chemistry Division of Australian Chemical Institute, chairman, 1975–1978

Academic Committee for Applied Sciences, Victorian Institute of Colleges, 1975–1978

Foundation Member of Council of Victorian Institute for Marine Science, 1978–1982

Ad hoc Computing Policy Committee for C.S.I.R.O., 1980–1981

Chairman, Committee of Review of Scientific and Technical Library and Information Services in CSIRO, 1981–1982

Member, committee of review of CSIRO divisions concerned with atmospheric physics, 1981–1982

Review committee for the Research School of Chemistry, Australian National University, 1982

Course committee, Chisholm Institute of Technology, 1983–1989

Member, Committee for an Aboriginal Pharmacopoeia, 1986–1988

Fellowships and other honours:

Rennie Memorial Medal of the Royal Australian Chemical Institute, 1954

Commonwealth Fund Fellow, (Harkness), 1956–1957

H.G. Smith Medal of the Royal Australian Chemical Institute, 1961

Solvay Rapporteur, Brussels, 1962

Medal, Universite of Liege, 1963

National Science Foundation Senior Foreign Scientist, 1964

Elected Fellow of the Australian Academy of Science, 1964

Queen's Jubilee medal, 1977

Elected Fellow of the Royal Society of Edinburgh, 1985

Appointed by the Queen as Officer of the Order of Australia, 1990

Honoured by the establishing of the ANZSMS Morrison lectureship, 1990

Membership of professional societies:

Australian Academy of Science

Royal Society of Chemistry, London

Royal Society of Edinburgh

Royal Society of Victoria

Royal Australian Chemical Institute

American Society for Mass Spectrometry

Australia and New Zealand Society for Mass Spectrometry

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Publications:

- [1] J.D. Morrison, W.P. Binnie, J.M. Robertson, Effect of hydrogen atoms on intensities of X-ray reflections, *Nature* 162 (1948) 889–890.
- [2] J.D. Morrison, J.M. Robertson, The crystal and molecular structure of certain dicarboxylic acids. Part IV. β -succinic acid, *J. Chem. Soc.* (1949) 980–986.
- [3] J.D. Morrison, J.M. Robertson, The crystal and molecular structure of certain dicarboxylic acids. Part V. Adipic acid, *J. Chem. Soc.* (1949) 987–992.
- [4] J.D. Morrison, J.M. Robertson, The crystal and molecular structure of certain dicarboxylic acids. Part VI. Sebacic acid, *J. Chem. Soc.* (1949) 993–1001.
- [5] J.D. Morrison, J.M. Robertson, The crystal and molecular structure of certain dicarboxylic acids. Part VII. β -glutaric acid, *J. Chem. Soc.* (1949) 1001–1008.
- [6] J.D. Morrison, The application of the mass spectrometer to chemistry, *Aust. Chem. Inst. J. Proc.* (1950) 339–350.
- [7] G.R. Hercus, J.D. Morrison, Volatile products of apples: mass spectrometric analysis, *Aust. J. Sci. Res. B-4* (1950) 290–292.
- [8] J.D. Morrison, Preliminary examination of the crystal structures of colchicine and its copper salt, *Acta. Crystallog.* 4 (1951) 69–70.
- [9] J.D. Morrison, Studies of ionization efficiency. I The determination of molecular appearance potentials using the mass spectrometer, *J. Chem. Phys.* 19 (1951) 1305–1308.
- [10] G.R. Hercus, J.D. Morrison, An instrument for the rapid determination of ionization efficiency curves using the mass spectrometer, *Rev. Sci. Instrum.* 23 (1952) 118–120.
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- ciency. II The ionization potentials of some organic molecules, *J. Chem. Phys.* 20 (1952) 1021–1023.
- [12] J.D. Morrison, Studies of ionization efficiency. III. The detection and interpretation of fine structure, *J. Chem. Phys.* 21 (1953) 1767–1772.
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- [15] J.D. Morrison, Electron impact spectroscopy, *Rev. Pure Appl. Chem.* (1954) 22–59.
- [16] J.D. Morrison, Application of the mass spectrometer to the study of the upper energy states of molecules, *J. Appl. Phys.* 28 (1957) 1409–1413.
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- [20] J.S. Broadley, D.W.J. Cruickshank, J.D. Morrison, J.M. Robertson, H.M. Shearer, Three-dimensional refinement of the structure of β -succinic acid, *Proc. R. Soc.* 251 (1959) 441–457.
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Patents:

- [1] C.G. Enke, R.A. Yost, J.D. Morrison, U.S. Patent 4,234,791, "Tandem quadrupole mass spectrometer for selected ion fragmentation studies and low energy collision induced dissociation therefor," 18 November 1980.
- [2] C.G. Enke, J.D. Morrison, R.A. Yost, Canadian Patent 1,117,224, "Tandem quadrupole mass spectrometer for selected ion fragmentation studies and low energy collision induced dissociation therefor," 26 January 1982.