

Neville Horner Fletcher — Brief C.V.

Born 1930 in Armidale NSW, Australia; married Eunice (Sciffer), 1953; 2 daughters (Robin and Anne) and 1 son (John) and 4 grandchildren (Joseph, Martin, Claudia and Anna). We have lived in Canberra since 1983.

Academic

Educated Armidale Demonstration School, Armidale High School, New England University College (then part of Sydney University), and Harvard University
B.Sc. (Sydney 1952), **M.A., Ph.D.** (Harvard 1955), **D.Sc.** (Sydney 1973)

Honours

Fellow, Australian Academy of Science (**FAA**), 1976
Fellow, Australian Academy of Technological Sciences and Engineering (**FTSE**), 1987
Member of the Order of Australia (**AM**) for services to Science, 1990

Awards

University Medal in Physics (Sydney University, 1951)
Frank Knox Memorial Fellowship (Harvard University, 1952)
Fulbright travel award (1952)
Edgeworth David Medal (Royal Society of NSW, 1963)
Nuffield Fellowship (Bristol University, UK, 1966)
JSPS Visiting Professor (Hokkaido University, Japan, 1974)
Thomas Ranken Lyle Medal (Australian Academy of Science, 1993)
Distinguished Alumni Award (University of New England 1994)
Silver Medal in Musical Acoustics (Acoustical Society of America 1998)
Centenary Medal (Australian Government 2003)

Professional Fellowships

Fellow, Acoustical Society of America, Australian Acoustical Society, Institute of Physics (London), Australian Institute of Physics

Career

Research Engineer, Clevite Transistor Products, Boston, (during PhD study) 1953–55
Research Scientist, CSIRO Division of Radiophysics, 1956–60
Senior Lecturer in Physics, University of New England, 1960–63
Professor of Physics, University of New England, 1963–83 (Emeritus Professor, 1983–)
Director, CSIRO Institute of Physical Sciences, 1983–88
Chief Research Scientist, CSIRO, 1988–95
Adjunct Professor, Australian National University 1990–95
Visiting Professor, University of New South Wales (ADFA), 1996–2000
Visiting Fellow, Australian National University, 1995–
Adjunct Professor, University of New South Wales, 2003–

Other Positions

Dean of Science (1963–65), University of New England
ProViceChancellor (1969–72), University of New England

President, Australian Institute of Physics (1981–83)
Member, ARGC Physics panel (1974-79) and ARC Physics panel (1995-2000)
Member, Australian Meteorology Policy Committee (1981-84)
Secretary for Physical Sciences, Australian Academy of Science (1980–84)
Member, International Commission on Acoustics (1985–90)
Chairman, Australian Antarctic Science Advisory Committee (1990–96)
Member of the Scientific Advisory Committee, National Acoustic Laboratories (2002– 05)
Editor, *Acoustics Australia* (1993– 2004)
Associate Editor, *Journal of the Acoustical Society of America* (2001–)
Member of the Editorial Boards of *Journal of Sound and Vibration*, of *Applied Acoustics*, and
of the Springer series *Monographs on Acoustics and Signal Processing*
Member of several committees for the Australian Academy of Science and the National
Library of Australia from time to time

Music

Studied flute with Victor McMahon in Sydney and James Pappoutsakis of the Boston Symphony Orchestra. Gave recitals (some even broadcast on ABC regional radio!) and played flute in many amateur orchestras in Armidale, Sydney, and Cambridge Mass. Gave flute lessons to music students at the University of New England. Later played the bassoon in the Canberra Community Orchestra and the U3A orchestra (flutes were plentiful and bassoons in short supply!). Was a church organist and choir-master for 20 years in Armidale.

Other Hobbies

Learnt to fly light aircraft in Armidale in 1972–73 and held an unrestricted private pilot's licence with night-flying instrument rating until a heart attack in 1977.

Publications

Total publications to 2006 include 7 books, about 200 research papers, 6 patents, 5 reports and 4 booklets for schools. Also 15 short stories since 1995, of which several have been published and 3 short-listed for prizes. 1 poem published. (Poems and stories collected into the book *Brief Candles* in 2005.)

Books

The Physics of Rainclouds N.H. Fletcher (Cambridge: Cambridge University Press 1962, reprinted 1966, 1969) 286 pp.

The Chemical Physics of Ice N.H. Fletcher (Cambridge: Cambridge University Press 1970) 271 pp. (Japanese translation by N. Maeno published by Kyoritsu Shuppan Sha, Tokyo 1974.)

The Physics of Musical Instruments N.H. Fletcher and T.D. Rossing (New York: Springer-Verlag, 1991) 620pp.; Second Edition (1998) 756 pp.; (Japanese translation published by Springer, Tokyo 2002).

Acoustic Systems in Biology N.H. Fletcher (New York: Oxford University Press, 1992) 333pp.

Principles of Vibration and Sound T.D. Rossing and N.H. Fletcher (New York, Springer-Verlag, 1995) (second edition 2004) 330 pp.

An Informal History of Physics at the University of New England, 1938–2001 N.H. Fletcher and C.A. Sholl (Armidale, University of New England, 2002) 139 pp.

Brief Candles (short stories and a few poems) N.H. Fletcher (self-published 2005) 88 pp.