

Brief Curriculum Vitae

Barry W. Ninham:

Born Adelaide, South Australia (09--04-1936)

Foundation Professor (1970-2000) and Head,
Department of Applied Mathematics
Research School of Physical Sciences and Engineering
Institute of Advanced Studies
Australian National University
Canberra, Australian Capital Territory
Australia 0200
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Married to Jennifer Ann Grose (deceased) 1958-2000. 4 adult children. 7 grandchildren

Married to Veronica Ruth White 2004

Career

Founder and Head, Dept. Applied Mathematics, ANU. Institute of Advanced Studies (1970--2000).

(Lecturer, Senior Lecturer, Queen Elizabeth II Fellow, A/ Professor, Dept. of Applied Mathematics, Univ. of N.S.W., Australia (1962-1970)

Research Fellow, IBM Corporation, T.J. Watson Centre, NY, USA (1960-1962)

Ph. D, U. Maryland, USA (Mathematical Physics.(1962),

Undergraduate and MSc (Theoretical Physics) U. Western Australia.

Emeritus Professor, ANU 2000-present.

Visiting Professor at numerous universities 1968-2010

2010-- Continuing research collaborations at ANU ; Florence and Cagliari, Italy;
Regensburg ; Germany; Lund and Linkoping, Sweden; Rio de Janeiro, Brazil

Awards

2010 Honorary Doctorate of Science , U. Western Australia

2008 The Australian National University created the
Barry Ninham Chair of Natural Sciences to recognise his contributions

Craig Medal, Australian . Academy of Sciences, 2006

Ostwald Award of German Chemical Society (Colloid and Surface Science) 2005

SIS Nestle-Mittal award 2004

Humboldt Distinguished Professor of Chemistry, Germany 2004;

Italian National Chair of Chemistry based in Florence 2002-3; Visiting Professor 2005-9

Honorary Doctorate of Science, U. Lund 2001;

Tage Erlander National Chair in Chemistry (Sweden) 1998;

Chalmers University 150th Anniversary Chair 1999;

TFR (Basic Engineering Sciences) Swedish National Chair in Chemical Engineering (1996);

Inaugural Lectureship Award, Colloid Division, Japan Chemical Society 1995;

Medal of College de France 1994);

Hon. Doctor of Technology in Chem. Eng. at KTH (Royal Institute of Technology . Sweden) 1991;

Rebinder Medal of the USSR Academy of Science 1990;

Fellow Australian Academy of Science 1978

Pawsey Medal of Australian Academy of Science 1970

Edgeworth David Medal of Royal Society of NSW 1970

First Queen Elizabeth II Fellowship Australia awarded (1964)

Professorships :

Foundation Professor and Head, Department of Applied Mathematics (Natural Sciences), ANU, 1970-2000

University of Florence 2006-7

Humboldt Distinguished Professor , Regensburg, Germany Jan-July 2005

Italian National Chair in Chemistry based mainly in Florence and Cagliari 2004-5

Guest Professor University of Florence 2003, 8 months

Guest Professor Malmo University, Sweden 2002 , 8 months

Speaker. 100th anniversary Nobel Prizes Jubilee Symposium Dec 4-6, 2001, Friiberghs Herrgard, Orsundsbro, Sweden

Professor Emeritus Australian National University 2001—present

Chalmers University 150th anniversary Chair of Chemistry 1999

Swedish National Tage Erlander NFR (Basic Sciences) Chair in Chemistry 1998/99

Visiting Professor University of Paris VI (1997-1999)

National Chair in Chemical Engineering, University of Lund (12 months) Sweden 1996 [TFR (Swedish Res. Council for Engineering Sciences)]

CEA Saclay, (Atomic Energy Commission), and College de France, University of Paris, France) 1994

University of Lund, Sweden (6 months),1991 and 1994

Visiting Professor, CEA Saclay (3 months), France 1987

Foundation Professor ,Institute for Mathematics and Its Applications, University of Minnesota and Department of Chemical Engineering, USA

Visiting Scientist, National Institutes of Health USA !968-9

Publications:

In excess of 400 research papers in physical chemistry, mathematics, physics, biology, 6 books.

Science citations in chemistry around 17,500 as at Dec 2008. (Other citations in mathematics, physics and biology).

Average citations per publication > 50
h-index: >62

Other professional contributions :

Chairman and organiser, various international meetings in Mathematics, Physics, Chemistry, and Biology; Reviewer, many scientific journals.

Member and Chair, 10 years, ANU Encyclopaedia Britannica Committee.
Director Australian Enhanced Oil recovery program,
Chair Review Committees in Physical Chemistry (1986), and Basic Engineering Sciences, Sweden (1997); Reviewer of Phys. Chem. for Atomic Energy Commission France (1998).
Numerous University Committees; Feature Writer in National Press, on education and science policy.
Consultant to companies incl. Proctor and Gamble, Unilever, joint programs with Memtec, Rohm and Haas, W.A. Sands.

Played a major role in preserving ANU from dismemberment during political disputes on new versus old Universities.
Founder, with Professor John Molony of the ANU Emeritus Faculty.
Foundation Member, UNESCO World Commission on Ethics of Scientific Knowledge and Technology. (1998-2002).

Significant scientific contributions

Ninham founded the ANU Department of Applied Mathematics in 1970, a world leader in the field of colloid and surface science. He has continued to lead the field for nearly 4 decades. He also founded and led the ANU Optical Sciences Department for more than 15 years.

More than 65 of his direct students and research fellows became full professors in Australia and overseas in various fields by 2008, and more than 10 had become Fellows of the Australian Academy of Sciences, and five Fellows of the Royal Society. He supervised around 200 Ph.D. theses in Australia and Overseas.

The Department maintains its high profile in experiment, applied work, and in theory at the boundaries of physical chemistry, chemical engineering, physics and biology, structure in condensed matter, inorganic chemistry and works extensively with industry.

Most recognised contributions are: pioneering advances in surface force theory and measurement, in theories of electrolytes and colloidal interactions, and in the self assembly of surfactants, microemulsions, lipids and other biosystems.

Contributions to other fields: Numerical analysis, astrophysics, stochastic processes, physical, inorganic and biochemistry, statistical mechanics of soft condensed matter, liquids at interfaces, solution chemistry, especially electrolytes, polyelectrolytes, new materials via templating and mechanochemistry, immunology, hydrophobic interactions, porous, disordered and random media; membranes for reverse osmosis and ultrafiltration. Number theory in physics, molecular forces in physics, and asymptotic analysis.

A Few Books

Random and Restricted Walks: Theory and Application

M. Barber, B.W. Ninham
Gordon & Breach, New York (1970), 176 pp.

Dispersion Forces J. Mahanty, B.W. Ninham Academic Press, London and New York
(1976), 236 pp.

The Language of Shape S. T. Hyde, S. Andersson, K. Larsson, S. Lidin, T. Landh, Z.
Blum and B. W. Ninham Elsevier Science B.V. Amsterdam.470 pp, ISBN: 0 444
81538 4 (1997).

Intermolecular Forces:
in Colloid and NanoSciences and Biology.
with P. Lonostro,
Cambridge University Press (2010), 365 pp, ISBN: 9780521896009