

Curriculum Vitae of Mark Warner, FRS

BORN: 26/1/52, Wellington, New Zealand.

NATIONALITY: Tri-national UK, NZ, German.

EDUCATION:

1970 – 1973: Corpus Christi College, Cambridge University; BA.

1973 – 1976: Physics Department, Imperial College, London University; Diploma (DIC).

Ph.D. Statistical Mechanics and Dynamics of Long Chain Molecules. Supervisor: Prof. Sir Sam Edwards, Cambridge; Examiner, Prof. P-G de Gennes, Paris.

PRIZES:

1989: Maxwell Medal and Prize of the Institute of Physics (for Theoretical Physics)

1999: Institute of Physics Prize for the Public Awareness of Physics.

2000: Humboldt Research Prize (DM100,000) for Physics of LC elastomers.

2003: Europhysics Prize (Agilent – formerly Hewlett-Packard Prize) of the European Physical Society. (Highest award of the European Physical Societies for Condensed Matter Physics, Euro50,000)

2009: William Hopkins Prize of the Philosophical Society for new phenomena in photo mechanics

2013: Colwyn Medal of the Institute of Materials, Minerals and Mining for elastomers research

2014: GW Gray Medal of the British Liquid Crystal Society.

2017: Founders' Prize in Polymer Physics, the Institute of Physics.

2019: Bragg Medal and Prize, the Institute of Physics (jointly with Lisa Jardine-Wright)

EMPLOYMENT:

2013 – 2018 Co-director, Isaac Physics Programme, including isaacphysics.org

2008 – 2013 Research Professor (EPSRC Senior Fellow)

2001 – Professor, Cavendish Laboratory, Cambridge.

1997 – 2001 Reader, Cavendish Laboratory, Cambridge.

1992 – 1997 Senior Tutor, Corpus Christi College.

1986 – Fellow, College Lecturer, Director of Studies in Physics, Corpus Christi College, Cambridge.

1986 – 1997 Lecturer, Cavendish Laboratory, Cambridge.

1980 – 88 Principal Scientist, Rutherford-Appleton Lab. (1981 Inst. Laue-Langevin, Grenoble.)

1979 – 80 IBM Research Fellow, San Jose, California (with Prof. PJ Flory, Stanford University).

1977 – 78 SRC Research Fellow (London and Cambridge).

LEARNED SOCIETIES:

Hon. Fellow, Royal Society of New Zealand; Fellow, Royal Society of London.

RESEARCH ACTIVITIES

EPSRC Professorial research fellow. Leave from all administration and teaching. Research into Liquid Crystal Elastomers for actuation, photo- and thermal- mechanics, shape memory devices. [£1M; salary and associated research assistants, computing, travel, . . . ; 2008-2013]

Joint--grant holder of TCM EPSRC Portfolio/Programme/Critical Mass Grants (1987-2008, 2012 –)

EPSRC Non linear Optics Grants (2; theory & experiment): Giant NLO response of main chain liquid crystal polymers. Coordinator, EU INTAS Programme for chiral and piezoelectric solids.

International Advisory Board: MacDiarmid Institute, New Zealand, for Advanced Materials and Nanotechnology; Freiburg Advanced Study Institute (FRIAS), Germany.