

Curriculum Vitæ

Peter Lynch

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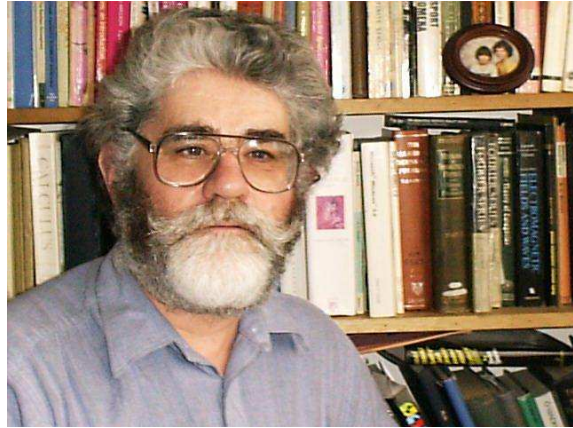


Figure 1:

University Education

1968 B.Sc. in Mathematical Science. National University of Ireland (UCD).

1969 M.Sc. in Mathematical Science. National University of Ireland (UCD).

1982 Ph.D. in Dynamic Meteorology, University of Dublin.

Thesis Title: Planetary Scale Hydrodynamic Instability in the Atmosphere.

Outline of Career

August, 1971 Joined the Irish Meteorological Service.
1990–1994 Head, Research and Training Division, Met Eireann
1994–2004 Deputy Director, Met Eireann
1997–1999 Project Leader, Hirlam Project
2004– Met Eireann Professor of Meteorology, UCD

Professional Associations

- Fellow of the Royal Meteorological Society
- Fellow of the Royal Astronomical Society
- Fellow of the Institute of Mathematics and its Applications
- Fellow of the Institute of Physics
- Member of the American Meteorological Society
- Member of the European Geosciences Union
- Founder Member of the Irish Meteorological Society (*President*, 1992–1994)
- Founder Member of the Irish Mathematical Society

Publication Statistics

- Number of refereed publications: 42. Total number of publications: 89. Full list of publications at <http://maths.ucd.ie/~plynch/Publications/>
- Publications with more than 100 citations: 2. With more than 20 citations: 10
- H-factor: 12

Primary Research Interests

- Dynamic Meteorology & Geophysical Fluid Dynamics
- Numerical Weather Prediction
- Climate Change Simulation
- History of Numerical Weather Prediction

Membership of Committees, etc.

- Member (1991–1998) of Scientific Advisory Committee of the European Centre for Medium-range Weather Forecasting. (*Chairman of Committee, 1997–1998*)
- National Correspondent for the International Association for Meteorology and Atmospheric Sciences
- Member of Advisory Board for *Tellus* (published by the Swedish Geophysical Society)
- Member of Scientific Council of the Irish Centre for High-End Computing (ICHEC)

Notable Scientific Achievements

MCC. As Deputy Director at Met Éireann with responsibility for Research and Applications, I negotiated with UCD to set up the Meteorology & Climate Centre (MCC) in 2004. MCC is now the leading academic centre in Ireland for meteorology and climate science.

C4I. In 2002, I spear-headed the establishment of the *Community Climate Change Consortium for Ireland* (C4I) Project, to build up climate modelling expertise in Ireland. C4I has resulted in the development of a national climate modelling capability.

FASTEX. I was responsible for bringing a major international observational and research programme, the Fronts and Atlantic Storm-Track Experiment (FASTEX) to Ireland. The operational HQ for the experiment was at Shannon Airport. I was a Principal Investigator in FASTEX.

SAC. The research programme of the European Centre for Medium-Range Weather Forecasts (ECMWF) is guided by the Scientific Advisory Committee (SAC). ECMWF is the world-leading weather forecasting centre. I served on the SAC for eight years, from 1991 to 1998, and was Chairman for two years. Leading scientists are appointed to the SAC on the basis of their knowledge and expertise in the field of numerical weather prediction and atmospheric science.

NWP in Ireland. I played a major role in the establishment of a national facility in numerical weather prediction (NWP), and in the evaluation and implementation of automatic analysis and prediction systems, which are now used in operational forecasting.

Hirlam. The current operational computer forecasting model of Met Éireann is the HIRLAM Model (HIgh Resolution Limited Area Model). HIRLAM has some eighty research scientists from ten European countries. I was Project Leader of the HIRLAM Project for the period 1997–1999.

TUCSON. I led the automation and extension of the national observing network, managing the design and deployment of the unified climate and synoptic observing network (TUCSON). This system now forms the backbone of the real-time atmospheric observation network of Met Éireann. TUCSON is also an essential component for the national climate monitoring network.