

## Summary

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Louise Pryor is a sustainability actuary and risk specialist with extensive experience in financial services, software and academia. Dr Pryor has led significant changes in the actuarial profession and is currently Immediate Past President of the Institute and Faculty of Actuaries (IFoA) where she is at the forefront of its sustainability work. Experienced in financial regulation, having led the development of the UK's technical actuarial standards, as well as an experienced Board member and chair, Louise is Chair of the Ecology Building Society, Chair of the London Climate Change Partnership, and an Honorary Professor in Practice at UCL's Bartlett School of Sustainable Construction. Currently SMF9, SMF13. Previously SMF12.

## Areas of Speciality

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- Climate change and sustainability
- Risk management and risk modelling
- Financial and professional regulation.

## Experience

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**2011 to date** **Independent consultant, researcher and company director for Callund Consulting, University of Cambridge, IFoA, UCL, LCCP, Ecology Building Society**

**Leadership** Led the work to make climate risk and other sustainability issues become mainstream in actuarial work. Led IFoA initiative to involve actuaries in Covid-19 work.

**Sustainability** Emerging risks, scenario analysis, climate change (insurance, banking, financial networks). Infrastructure resilience and worldwide city risks. Disaster risk insurance. Climate risk for actuaries. Whole of life carbon. Adaptation to climate change. Climate change liaison with regulators and other professional bodies.

**Risk management** Capital modelling for insurers. Solvency II.

**Actuarial** National pension schemes and social security in Africa, Asia and South America, including pensions and savings for the informal sector.

**Software** Financial and network models, machine learning, data analytics (pensions, social security, banking, infrastructure, telematics, historical market data).

**2008 – 2011** **Financial Reporting Council (FRC) (Director, Actuarial Standards from 2008) Member of the Board for Actuarial Standards (BAS)**

**Leadership** Shifted technical actuarial regulation in the UK from rules-based to principles-based, and from protecting actuaries to putting the interests of users of actuarial information foremost

**Regulation** Led the development of the first set of technical standards for actuarial work to be developed by an independent standard setting body. Involved in professional oversight of actuaries, auditors and accountants.

**Actuarial** Developed the Modelling and Reporting Technical Actuarial Standards (TASs). Supervised and contributed to all the other TASs. Wrote the BAS's discussion and research papers on Actuarial Mortality Assumptions.

**Management and governance** Recruited and led the full-time executive team supporting a non-executive board. Developed and managed relationships with stakeholders. Member of the FRC's Senior Management Team.

**2002 – 2007** **Independent consultant**

**Leadership** Changed actuaries' attitudes to spreadsheets so risks were taken more seriously

**Risk management** Independent reviews of financial models and software development processes. Capital modelling for insurers. Solvency II. Development and deployment of standards and processes for user-developed models. Committee member, European Spreadsheet Risks Interest Group.

**Software** Asset-liability modelling for major annuity writer.

- Education** Member of group devising syllabus for an international certificate in spreadsheet development and audit (ECDL). Evaluated teaching materials and test materials. Module design for actuarial modelling and analysis.
- Actuarial** Member of working parties on operational risk and professionalism. Speaker at conferences and seminars.
- 1996 – 2001 Development manager, software engineer**
- Software** Architect and lead developer for client/server system for analysing stock lending risk; lead engineer for a component of a large distributed system using machine learning, planning and scheduling to implement adaptive workflow control.
- Management** Recruited and managed development team.
- 1993 – 1996 University lecturer; Birmingham University and University of Edinburgh**
- Research** Artificial intelligence.
- Education** Course design and delivery on undergraduate and graduate degree courses in artificial intelligence and computer science.
- 1988 – 1993 PhD in Computer Science, Northwestern University, USA**
- Research** Artificial intelligence and machine learning. Thesis title “Opportunities and planning in an unpredictable world”. PhD awarded 1994.
- 1981 – 1988 Actuarial trainee and consultant**
- Actuarial** Pensions, life and general insurance.
- Software** Profit testing system and model office.

## Boards

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- 2022 – date Chair, Ecology Building Society (Nominations Committee, Environment and Societal Impact Committee)
- 2020 – 2022 Director, Ecology Building Society (Nominations Committee, Remuneration Committee)
- 2019 – date Chair, London Climate Change Partnership
- 2018 – 2022 Management Board of the Institute and Faculty of Actuaries
- 2017 – date Chair, Rosmarinus Charitable Trust
- 2016 – date Director, Callund Consulting Limited
- 2015 – date Member of Council of the Institute and Faculty of Actuaries (President 2021 – 2022)
- 2014 – 2019 Resource and Environment Board of the Institute and Faculty of Actuaries (Chair 2017 – 2019)
- 2014 – 2017 Education Board of the Institute and Faculty of Actuaries
- 2011 – 2018 Chair of the Stipends Committee of Newnham College, Cambridge
- 2009 – 2012 Advisory Board of the Centre for Financial History, Newnham College, Cambridge
- 2009 – 2011 Associate Fellow of Newnham College, Cambridge (lay member of the Governing Body)
- 2008 – 2011 Member, Board for Actuarial Standards (an operating body of the FRC)
- 2008 – 2011 Observer on the Professional Oversight Board (an operating body of the FRC)

## Education and Qualifications

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- 1978 – 1981 BA (Hons) Mathematics, Newnham College, University of Cambridge. MA 1983
- 1987 Fellow of the Institute of Actuaries (Associate 1985)
- 1988 – 1993 PhD in Computer Science (Artificial Intelligence), Northwestern University, USA (PhD 1994)
- 2019 Fellow of the Institute of the Institute of Environmental Management and Assessment (IEMA)