

CV for John Joseph O'Connor

Personal

Born 31st July 1945 in Luton, Bedfordshire, England.

Married (1969) in Medford, New Jersey, USA to Jean Cridland.

Children: Paul (born 1973), Elspeth (1976), Helen (1978), James (1980).

Education

Secondary school (1956 to 1963) St Michael's College, Hitchin, Hertfordshire.

1964: Open Scholarship in Mathematics to St Catherine's College, Oxford.

1965: 1st class honours in Mathematics Moderations.

1966: 1st class honours in BSc Mathematics.

1967: Diploma in Advanced Mathematics (Oxford).

1975: DPhil in Mathematics (Oxford)

Supervisor: G B Segal, Thesis title: Equivariant Cobordism.

Employment

1964: Scientific Assistant, National Physical Laboratory, Teddington, Middlesex

1970: Lecturer in Pure Mathematics, University of St Andrews

1992: Senior lecturer

2010: Honorary senior lecturer

Research interests

Topology, Computational Algebra, History of Mathematics.

A list of publications is available at:

http://www-history.mcs.st-and.ac.uk/~john/JOC_publications.html

I have supervised nine doctoral students. Details are available at

<https://www.genealogy.math.ndsu.nodak.edu/id.php?id=87803>

Teaching

First and second year level:

Courses in algebra, analysis, differential equations, mathematical information technology.

Honours courses (third and fourth years)

General topology, Algebraic topology, Differential topology, Metric and topological spaces, Knot theory, Catastrophe theory.

Geometry, Differential geometry, Geometry and topology.

Algebraic geometry, Rings and fields, Functional analysis, Functional analytic methods.

Lebesgue integration, Symbolic computation.

History of mathematics.

Computer software

With Edmund Robertson I am one of the developers of the MacTutor Teaching software.

This won the British Nuclear Fuels Partnership Trust award in 1992, the United States Department of Energy Computational Science Education award in 1995 and the European Academic Software award in 1994.

History Archive

With Edmund Robertson I am one of the creators of the **MacTutor History of Mathematics** archive.

This web-site won us the **Comenius medal** of the Hungarian Comenius Society in 2012 and the **Hirst Prize** of the London Mathematical Society in 2015.

Contact details

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