

Curriculum vitae: Christopher Charles Benedict Southgate

Education: BA (Cantab) 1974, MA PhD (Biochemistry, Cantab) 1978, Cert Theol (Exon) 1989, GMC (Church of England) (DipTh equivalent) 1991.

Academic Appointments:

Research Associate, Dept of Biochemistry, University of North Carolina 1978-9

Research Officer, Pharmaceutical Chemistry, Bath University 1979-81

University of Exeter: Lecturer on annual contracts 1993-2007

Director of Modular Studies 1997-2001

Research Fellow (0.5) 2006-9

Lecturer (0.2) 2009-12

Senior Lecturer (0.2) 2012-16

Associate Professor (0.2) 2016-18 (0.6 from Oct 2017)

Professor (0.6) 2018-

Also at South West Ministry Training Course: Staff Tutor 2001; Dean of Studies 2005; Vice-Principal 2010; Principal 2013-17.

A. Research

Research Field: 1) Exploration of the role of semiosis in the origin of life. A theoretical framework for this was spelled out in Southgate and Robinson (2010) and Robinson and Southgate (2009). Initial computer modelling results providing proof of concept followed in Lui et al (2010). Further criteria for detecting semiosis at its most basic have been devised and published. Preliminary experimental results in a real molecule, a ribozyme from *Tetrahymena*, have shown that a version of this molecule has this property of 'interpreting' its environment, and furthermore that the property is evolvable (Lehman et al, 2014). Our contention is that this represents a whole new research programme in origin of life research. This programme is being taken forward in a grant from the John Templeton Foundation to look at the potential interaction of interpretation with cooperation in proto-life.

2) My main theological focus in recent years has been the problem of suffering in evolution, on which I have now published a monograph, *The Groaning of Creation*, which has proved to be a seminal text, also three peer-reviewed articles, a book chapter, and a chapter for the relevant *Cambridge Companion*. My work on the so-called 'only-way' argument and the necessity of developing a compound theodicy remains a focus for debate.

This focus on suffering finds practical application in the project 'How can congregations be helped in times of tragedy?' (tragedyandcongregations.org.uk). This project, which began in March 2017, has already attracted attention from BBC R4, *The Times* and

The Telegraph. It will lead to an edited collection of essays, under contract to Routledge.

3) The work on theodicy has led me into the study of divine glory, on which I gave the Sarum Lectures in 2014 and have published two peer-reviewed articles. This combines my interest in theology that takes the science of the natural world seriously with my interest in the contribution of poets and mystics to a contemplative theology that seeks to 'bear reality' (to paraphrase Eliot). The work culminated in the monograph *Theology in a Suffering World: Glory and Longing* published by Cambridge University Press in August 2018. The core article for the book has been rated 4* (the highest ranking in UK research assessment) by an external assessor.

4) Having published on the relationship between T.S. Eliot and Emily Hale, I plan to visit Princeton in 2020 as soon as the poet's letters to Hale are released.

Grants: The grants on which I have been a principal investigator since 2007 are:

- i) Jan 2018: (\$630,000 from the John Templeton Foundation).
'Cooperation and Interpretation in the Origin of Life'.
- ii) Sept 2017: (valued at £133,000) The University of Exeter has been awarded, through me, one of the 'St Andrews Fellowships' under a two-year post-doctoral scheme to promote scholarship in science and religion.
- iii) March 2017: (£155,000 from Templeton World Charities Foundation, Inc.)
'How can congregations be helped in times of tragedy.'
- iv) Three grants from the Science and Transcendence Advanced Research Series. 150 scholars attended the initial conferences in Mexico., and 20 groups gained first-phase funding. Mine was one of only two groups in the world to win all three rounds of funding (\$20,000 US in June 2007; \$100,000 in December 2007; \$200,000 in December 2008). This work culminated in a presentation to the International Society for the Study of the Origin of Life in Japan in 2014.

Publications – most significant are starred:

Monographs

1. *Southgate, Christopher, *Theology in a suffering world: Glory and Longing* Cambridge: Cambridge University Press, 2018. 296pp.
2. *Horrell, David, Hunt, Cheryl, and **Southgate, Christopher**, *Greening Paul: re-reading the Apostle in a age of ecological crisis* Waco, Tx.: Baylor University Press, 2010 [co-authored monograph], 333pp.
3. *Southgate, Christopher, *The Groaning of Creation: God, Evolution and the Problem of Evil*, Louisville, Ky: Westminster John Knox Press, 2008, 196pp.
4. Southgate, Christopher, *A Love and its Sounding: explorations of TS Eliot* Salzburg: University of Salzburg Press, 1997, 96pp.

Edited books

5. *Southgate, Christopher (ed.) *God, Humanity and the Cosmos: a textbook in science and religion*, London: T&T Clark/Continuum 3rd edn 2011, previous edns 1999, 2005. 2011 edn 501pp.
6. Horrell, David, Hunt, Cheryl, **Southgate, Christopher** and Stavrakopoulou, Francesca (eds), *Ecological Hermeneutics*, London and New York: T&T Clark/Continuum, 2010, 333pp.

Chapters in books

7. *Southgate, Christopher, 'Free-Process and Only-Way Arguments' in *Finding Ourselves after Darwin* ed. Stanley P. Rosenberg, Grand Rapids, Mi.: Brazos Press, forthcoming 2018.
8. Southgate, Christopher, 'Science and Evil' in *The History of Evil, Vol. 5*, ed. Victoria Harrison, Durham: Acumen Press, forthcoming 2018.
9. Southgate, Christopher, 'Cosmic Evolution and Evil' in *The Cambridge Companion to the Problem of Evil* ed. Paul Moser and Chad Meister, Cambridge: Cambridge University Press, 2017, 147-64.
10. Southgate, Christopher, 'The Orientation of Longing' in *Issues in Science and Theology" Do Emotions Shape the World?*, ed. Dirk Evers et al, Dordrecht: Springer, 2016, 73-86.
11. Southgate, Christopher, 'Depth, Sign and Destiny' in *Incarnation: on the scope and depth of Christology*, ed. Niels Gregersen, Minneapolis: Fortress, 2015, 203-23.
12. Southgate, Christopher, 'Does God's care make any difference? Theological reflection on the suffering of non-human creatures' in *Christian Faith and the Earth: Current Paths and Emerging Horizons in Ecotheology*, ed. Ernst Conradie, Sigurd Bergmann, Celia Deane-Drummond and Denis Edwards, London: Bloomsbury, 2014, 97-114.
13. Southgate, Christopher, 'Ecology and Natural Theology' in *The Oxford Handbook of Natural Theology*, ed. Russell ReManning and Fraser Watts, Oxford: Oxford University Press, 2013, 459-74.
14. Southgate, Christopher, 'Looking East at Sunset' in *Inspiration in Science and Religion* ed. Michael Fuller, Newcastle-upon-Tyne: Cambridge Scholars Press, 2012, 43-52.
15. **Southgate, Christopher** and Eaton, Heather, 'Science and Theology Discourse' in *Creation and Salvation, Vol. 2*, ed. Ernst Conradie, Zürich and Munster: LIT Verlag, 173-214.
16. Robinson, Andrew and **Southgate, Christopher**, 'Semiotics, evolution and theology' in *Darwinism and natural theology: evolving perspectives* ed. Andrew Robinson, Newcastle-upon-Tyne: Cambridge Scholars Press, 2012, 126-44.
17. Southgate, Christopher, 'Parasites and Pangloss' in *Creation, Environment and Ethics*, ed. Rachel Humphreys and Sophie Vlacos, Newcastle-upon-Tyne: Cambridge Scholars Press, 2011, 61-74.
18. Southgate, Christopher, 'A Look to the Future' in *God, Humanity and the Cosmos*, ed. Christopher Southgate, London: T&T Clark/Continuum, 2011, 441-8.
19. Southgate, Christopher, 'The new atheism' in *God, Humanity and the Cosmos*, ed. Christopher Southgate, London: T&T Clark/Continuum, 2011, 315-28.
20. Southgate, Christopher, 'A test case – divine action' in *God, Humanity and the Cosmos*, ed. Christopher Southgate London: T&T Clark/Continuum, 2011, 274-311.
21. **Southgate, Christopher** and Michael Negus, 'Some resources for theological thinking on God and the world from outside the Christian tradition' in *God, Humanity and the Cosmos*, ed. Christopher Southgate, London: T&T Clark/Continuum, 2011, 255-72.
22. Southgate, Christopher, 'Some resources for Christian theology in an ecological age' in *God, Humanity and the Cosmos*, ed. Christopher Southgate, London: T&T Clark/Continuum, 2011, 225-53.
23. Andrew Robinson, **Christopher Southgate** and Michael Negus, 'Theology and Evolutionary Biology' in *God, Humanity and the Cosmos*, ed. Christopher Southgate, London: T&T Clark/Continuum, 2011, 162-202.

24. **Christopher Southgate** and Michael Poole, 'Introduction' in *God, Humanity and the Cosmos*, ed. Christopher Southgate, London: T&T Clark/Continuum, 2011, 3-42.
25. Christopher Southgate, 'Religion, Science and Naturalism – introductory essay' in *A Companion to the ISSR Library of Science and Religion* Cambridge: International Society for Science and Religion, 2011, 53-4.
26. Christopher Southgate, 'The Work of Love – introductory essay' in *A Companion to the ISSR Library of Science and Religion* Cambridge: International Society for Science and Religion, 2011, 147-8.
27. Andrew Robinson and **Christopher Southgate**, 'Intelligent Design and the Origin of Life' in *Intelligent Faith*, ed. John Quenby and John Macdonal Smith, Ropley: O Books, 2009, 49-69.
28. Southgate, Christopher, 'The new days of Noah?' in *Creaturely Theology*, ed. Celia Deane-Drummond and David Clough, London: SCM Press, 2009, 249-65.
29. Southgate, Christopher, 'Protological and eschatological vegetarianism' in *Vegetarianism as a Spiritual Choice*, ed. Rachel Muers and David Grumett, London and New York: T&T Clark/Continuum, 2008, 247-65.
30. Southgate, Christopher, 'Kenosis – divine and human – as a resource in ecological theology' in *Creation's Diversity: Voices from Theology and Science, Issues in Science and Theology 5*, ed. Willem B. Drees, Hubert Meisinger and Taede A. Smedes, London and New York: T&T Clark/Continuum, 2008, 58-77.
31. Southgate, Christopher, 'Creation as 'very good' and 'groaning in travail: an exploration in evolutionary theodicy' in *The Evolution of Evil* ed. Gaymon Bennett, Martinez Hewlett, Ted Peters and Robert Russell, Göttingen: Vandenhoeck and Ruprecht, 2008, 53-85.
32. **Southgate, Christopher** and Robinson, Andrew 'Varieties of Theodicy: An Exploration of Responses to the Problem of Evil based on a Typology of Good-Harm Analyses' in *Physics and Cosmology: Scientific Perspectives on the problem of evil in nature*, ed. Nancey Murphy, Robert J. Russell, and William Stoeger SJ, CTNS and Vatican Observatory: Berkeley, Ca. and Vatican City, 2007, 67-90.
33. *Southgate, Christopher, 'Stewardship and its Competitors' in *Stewardship: An Environmental Handbook*, ed. R.J. Berry, Edinburgh: T&T Clark International, 2006, 185-95.
34. Southgate, Christopher 'From the bison at Niaux to the Kyoto Protocol: a journey in human nature' in *The Evolution of Rationality: Festschrift in honour of J. Wentzel van Huyssteen* ed. F. LeRon Shults, Grand Rapids, Mi. and Cambridge: Eerdmans, 2006, 183-96.
35. Southgate, Christopher, 'Environmental Ethics and the Science-Religion Debate: A British Perspective on Barbour' in *50 Years in Science and Religion: Ian Barbour and his Legacy*, ed. Robert J. Russell, Aldershot: Ashgate, 2004, 239-48.
36. Southgate, Christopher 'Response' in *Reordering Nature: Theology, Society and the New Genetics*, ed. Bron Szercynski and Celia Deane-Drummond with Robin Grove-White, Edinburgh: T&T Clark Ltd, 2003, 39-42.
37. Southgate, Christopher, 'Introduction to Environmental Ethics' in *Bioethics for Scientists*, ed. John Bryant *et al.* New York: Wiley, 2002, 39-56.
38. Southgate, Christopher, 'The Use of the Rain-forest as a Test-Case in Environmental Ethics' in *Bioethics for Scientists*, ed. John Bryant *et al.*, New York: Wiley, 2002, 57-72.
39. **Southgate, Christopher**, and Aylward, Alex, 'Environmental Ethics: Further Case-Studies' in *Bioethics for Scientists*, ed. John Bryant *et al.*, New York: Wiley, 2002, 73-84.

40. Southgate, Christopher, 'Reconsidering Phlebas: Faith in the Life and Work of T.S.Eliot' in *English Literature, Theology and the Curriculum*, ed. Liam Gearon, London: Cassell, 1999, 221-28.

Papers in journals

41. Southgate, Christopher, 'God's Creation Wild and Violent, and our Care of Other Animals, *Perspectives in Science and Christian Faith*, 67, 245-53 2015.
42. *Lehman, Niles, Bernhard, Tess, Larson, Brian, Robinson, Andrew, and **Southgate, Christopher**, 'Empirical demonstration of environmental sensing in catalytic RNA: evolution of interpretive behavior at the origins of life, *BMC Evolutionary Biology* 14 ARTN 248 Dec 4 2014 (online).
43. *Southgate, Christopher, 'Divine Glory in a Darwinian World', *Zygon* 49(4), 784-807, 2014. (rated 4* on external assessment).
44. *Southgate, Christopher, 'Re-reading Genesis, John and Job', *Zygon* 46(2) 365-90, 2011.
45. Robinson, Andrew and **Southgate, Christopher**, 'Incarnation and Semiotics: A Theological and Anthropological Hypothesis: Part II – Semiotics, Anthropology and Religious Transformation' *Theology and Science* 8 (3) 283-302, 2010.
46. Robinson, Andrew and **Southgate, Christopher**, 'Incarnation and Semiotics: A Theological and Anthropological Hypothesis: Part I – Incarnation and Peirce's Taxonomy of Signs', *Theology and Science* 8 (3) 265-82, 2010.
47. Robinson, Andrew, and **Southgate, Christopher**, 'Broken Symbols? Response to F. LeRon Shults', *Zygon* 45(3) 733-8, 2010.
48. Robinson, Andrew and **Southgate, Christopher**, 'Semiotics as a Metaphysical Framework for Christian Theology', *Zygon* 45 (3) 689-712, 2010.
49. Robinson, Andrew, **Southgate, Christopher** and Deacon, Terrence, 'Discussion of the Conceptual Basis of Semiotics' *Zygon* 45 (2) 409-18, 2010.
50. **Southgate, Christopher** and Robinson, Andrew, 'Interpretation and the Origin of Life', *Zygon* 45 (2) 345-60, 2010.
51. Robinson, Andrew and **Southgate, Christopher** 'Introduction: towards a metaphysics of meaning', *Zygon* 45 (2), 339-44, 2010.
52. Lui, Leong Ting, Yang, Zhao, Robinson, Andrew, and **Southgate, Christopher**, 'Interpretation and the Origin of Life', *Biological Theory* 5 (2) 112-16, 2010.
53. *Robinson, Andrew and **Southgate, Christopher**, 'A General Interpretation of Interpretation and its Application to Origin of Life Research', *Biology and Philosophy* 25(2) 163-81, 2009.
54. **Southgate, Christopher**, Hunt, Cheryl, and Horrell, David 'Ascesis and Assisted Migration: responses to the effects of climate change on animal species', *Eur. J. Science and Theology* 4, 99-111, 2009.
55. Horrell, David, Hunt, Cheryl, and **Southgate, Christopher**, 'An Environmental Mantra? Ecological interest in Rom. 8.19-23 and a modest proposal for its narrative interpretation', *Journal of Theological Studies* 59, 546-79, 2008.
56. Horrell, David, Hunt, Cheryl, and **Southgate, Christopher**, 'Appeals to the Bible in Ecotheology and Environmental Ethics', *Studies in Christian Ethics* 21, 219-38, 2008.
57. Southgate, Christopher, 'Not Reading Derrida in Tehran' in *Reviews in Science and Religion* 48,12-15, 2006.
58. Southgate, Christopher 'Taking Evolution Seriously' *The Bulletin of the Anglican Society for the Welfare of Animals* Feb 2003.
59. Southgate, Christopher, 'God and evolutionary evil: theodicy in the light of Darwinism' *Zygon* 37, 803-24, 2002.
60. Southgate, Christopher, 'Time Travel', *Science and Spirit*, 12 (6) 20, 2001.

61. Notarianni, Lidia, Oldham, Harriet, Bennett, Peter, **Southgate, Christopher** and Parfitt, Robert, 'Epoxides from paracetamol: a possible mechanism for paracetamol toxicity', *Adv. Exp. Med. and Biol.* 136, 1077-83, 1982.
62. Bennett, Peter, Notarianni, Lidia, Oldham, Harriet, Parfitt, Robert, and **Southgate, Christopher**, 'Metabolic Intermediates of Paracetamol which may explain its Mechanism of Toxicity', *Pharmacology* 75, 60P, 1982.
63. Wolfenden, Richard, Andersson, Lars, Cullis, Paul, and **Southgate, Christopher**, 'Affinity of Amino Acid Side Chains for Solvent Water', *Biochemistry* 20, 849-55, 1981.
64. Wolfenden, Richard, Cullis, Paul, and **Southgate, Christopher**, 'Water, Protein Folding and the Genetic Code', *Science* 206, 575-77, 1979.
65. Wolfenden, Richard, Andersson, Lars, Cullis, Paul, and **Southgate Christopher**, 'Transition-State Analog Binding and Enzyme Catalysis in a Watery Environment', *Abstr. Am. Chem. Soc.* 86-88, 1979.
66. **Southgate, Christopher** and Dixon, Henry, 'Phosphonomethyl Analogues of Amino-acyl adenylates', *Biochemical Journal* 175, 461-65, 1978.

Review Articles in journals

67. Southgate, Christopher, 'Science and Religion in the UK – A Personal View on the Contemporary Scene', *Zygon* 51 (2) 2016.
68. Southgate, Christopher, 'Can God act in the World Science Describes?', *Dialogue* 31 32-36, 2008.

Book Reviews since 2007

69. Simon Oliver, *Creation*, *Scottish Journal of Theology* (in press).
70. H. Paul Santmire, *Before Nature*, *Worldviews* 20, 1-3, 2017.
71. Kevin Treston, *Emergence for Life not Fall from Grace* and Ilio Delio, *The Unbearable Wholeness of Being*, *Modern Believing* 57(4) 426-9, 2016.
72. Jason Fout, *Fully Alive*, *Modern Theology* 32, 464-6, 2016.
73. Celia Deane-Drummond and Heinrich Bedford-Strohm (eds), *Religion and Ecology in the Public Sphere*, *Ecclesiology* 11(3) 395-7, 2015.
74. Elizabeth Johnson, *Ask the Beasts*, *Science and Christian Belief* 27(1) 114-116, 2015.
75. Malcolm Guite, *Sounding the Seasons*, *Temenos Academy Review* 17, 233-4, 2014.
76. Philip Clayton and Steven Knapp, *The Predicament of Belief*, *Religious Studies*, 49, 125-30, 2012.
77. F. LeRon Shults, *Christology and Science*, *Scottish Journal of Theology*, 65, 500-2, 2012.
78. Christopher Knight, *The God of Nature*, *Science and Christian Belief*, 23, 182-3, 2011.
79. Whitney Bauman, *Theology, Creation and Environmental Ethics*, *Studies in Christian Ethics*, 2011.
80. Robert Russell, *Cosmology*, *Theology and Science* 9, 253-5, 2011.
81. H. Paul Santmire, *Ritualising Nature*, *Worldviews*, 14, 290-3, 2010.
82. Willis Jenkins, *Ecologies of Grace*, *Reviews in Science and Religion* 53, 42-4, 2009.
83. Terry Cooper, *Dimensions of Evil*, *Expository Times* 120 (6) 305-6, 2009.
84. Leslie Jones and Michael Reiss (eds), *Teaching about Origins*, *Reviews in Science and Religion* 52, 47-50, 2008.
85. Robin Attfield, *Creation, Evolution and Meaning*, *Reviews in Science and Religion*, 51, 33-5, 2008.

86. Neil Messer, *Selfish Genes and Christian Ethics*, *Studies in Christian Ethics* 21, 142-5, 2008.
87. Arthur Peacocke, *All that is*, *Reviews in Science and Religion* 50, 25-30, 2007.
88. Robert Russell, *Cosmology, Evolution and Resurrection Hope*, *Reviews in Science and Religion*, 49, 48-51, 2007.
89. Graham Hellier, *Is God a delusion?*, *Reviews in Science and Religion*, 49, 51-2, 2007.
90. Darryl Domning and Monika Hellwig, *Original Selfishness*, *Conversations in Religion and Theology* 5, 173-85, 2007.

Editorship of journals

Reviews in Science and Religion 2005-10.

Guest editor, *Ecotheology*.

Guest editor, *Zygon: Journal of Religion and Science*.

Other Publications

Six interviews on Science and Theology issues with Robert Kuhn were filmed for PBS in 2011 (available on closetotruth.com).

Research through Practice

I am the author of eight collections of poetry, and have won various awards for some including a commendation in the National Poetry Competition. My biographical poem on T.S. Eliot, 'A Love and its Sounding' has been performed widely on both sides of the Atlantic, and a dramatized version received a read-through from Ground Up Productions in Manhattan in 2008. I have received significant commissions for poems, e.g. to celebrate the 50th anniversary of the NHS in Devon (involving research on the mental health wards at Wonford Hospital), to celebrate the rededication of the chapel of King's College, London by the Archbishop of Canterbury, and to celebrate the 400th anniversary of the King James Bible, involving research at Lambeth Palace and elsewhere. The KJV poem was commissioned by the NIDA institute in collaboration with the American Bible Society, and read at the Abbott Lecture in Westminster Abbey and the International Society of Biblical Literature, King's College London. (The poem was later quoted by Archbishop Rowan Williams in a sermon at the Abbey in the presence of the Queen.)

Research Impact: My opportunities to disseminate my research – especially on the problem of suffering, and on environmental theology - to church groups offer a regular source of impact. Examples include my work as a Montgomery Trust lecturer since 2006, speaking at church groups, local societies, and even a convent – also my extended presentations at the Lee Abbey Christian Fellowship, North Devon, on theodicy, glory and T.S. Eliot – my recent retreat on Eliot at the Society of Mary and Martha, Sheldon, and my regular presentations to groups of clergy of the Diocese of Truro on the power of poetry in their work.

The project on tragedy in congregations has been publicized by BBC Radio 4, *The Times*, *The Telegraph*, and *The Church Times*.

Education

Modules presently taught:

THE1077 since 2013: God, Humanity and the Cosmos: An Introduction to the Science-religion Debate

THE2152/3152: since 2007: Evolution, God and Gaia.

Recent modules have included: THE2143/3143 God and the Physicists; THEM102 The Human Animal. I was also involved in teaching the innovative bioethics module convened to respond to the requirement for ethics in the biology curriculum.

Recent nominations for Student Guild teaching awards: Best Lecturer (x2), Best Supervisor, Innovative Teaching, Research-Inspired Teaching.

My seminar-leading has been particularly commended in student feedback and I have used that to help graduate students on their Training to Teach programme at Exeter. I have also participated in the LTHE sessions to provide feedback on short presentations by trainees.

Grants for teaching purposes

1996 Templeton Foundation Award for a course in the area of Science and Religion,
1997 Grant from the Templeton Foundation to develop a textbook in science and religion,

1999 Templeton Foundation Course Development Award,

2015 'Seedcorn' grant from Durham University to lead a project for the development of science and religion teaching in Anglican theological education.

External Examining:

a. taught courses: Oxford University – MSt in Science and Religion 2005-7. Edinburgh University MSc in Science and Religion 2013-16; London School of Theology/Middlesex University BA 2010-14; South East Institute for Theological Education/Canterbury Christ Church University DipTh/FdA 2015-16, Bristol University Dept of Religion and Theology BA/MA 2017-.

b. research degrees: PhD – Liverpool Hope University; Griffiths University (Australia); Oxford Brookes University, Durham University, University of Edinburgh; MLitt – Cambridge University.

c. assessment of courses at other universities: External Assessor for proposed Masters' programmes at University College Chester, Edinburgh University. Re-validation of the West of England Ministry Training Course for the University of Gloucestershire.

Postgraduate Personnel:

PhD's supervised to completion: Andrew Robinson, Anne Harding, Bethany Sollereeder, Anthony Kyriakides-Yeldham

MPhil supervised to completion: Andrew Sibley

MbyRes supervised to completion: Derek White

I am currently first supervisor for three PhD students, one yet to upgrade, and one MbyRes, and second supervisor for two further PhD students. I expect to recruit two further full-time PGRs to start in Sept 2018.

I recruited, and directed the work of, a one-year postdoc computer modeller on the STARS grant, Dr L.T. Lui, and have recruited a further postdoc for the Tragedy and Congregations grant, Dr Megan Warner. I am currently directing her work and that of the St Andrews Fellow Dr Pedersen. I received an 'Above and Beyond' award for bringing these latter two scholars into the Dept.

Two of my research students won College Scholarships to come and work with me, one of them from Canada. I am also co-supervising a PhD with the Director of Creative Writing in the Dept of English.

Leadership and Management

Because of the part-time nature of my contracts I have not held College or Discipline-level appointments. I was however Dean of Studies of the South-West Ministry Training Course when this organization was a partner institution of the University, and took the SWMTC programme through a complete redesign in 2005 and a validation of an Exeter Foundation Degree in Christian Theology for Ministry in 2010. The latter attracted HEFCE funding to the programmes. Before that I had been Director of the Modular Degree (now the Flexible Combine Honours Programme) from 1997-2001, expanding the programme and gaining additional HEFCE funding. When I stepped down from the Modular Degree my 0.1 post was replaced at 0.5fte.

From 2012 I was first Acting Principal and then Principal of the South-West Ministry Training Course, with a regional role in leadership and management of theological education.

External recognition:

Hawthornden Fellowship awarded 1999.

Trustee, Cumberland Lodge, Windsor 2001-9 and chair of the Academic Consultative Committee.

Visiting Scholar, Graduate Theological Union, Berkeley, 2005

Reuters' Visiting Fellow, St John's University Minnesota, 2013

Sarum Lecturer, Salisbury Cathedral, 2014

Gowland Lecturer, 2016.

Elected member of the International Society for Science and Religion 2007. Member of the Science and Religion Forum (on Committee since 2003), and Christians in Science.

Presentations: 2018 Sebastian Lecture, Exeter Cathedral. Lecture on ecological theology, Chester Cathedral, Invited keynote, Vatican Conference on Integral Ecology, Rome. Invited keynote, European Society for the Study of Science and Theology (ESSSAT), Lyon, France. The September 2018 issue of the journal *Zygon* will be devoted to my work. There will also be a panel on my work at the American Academy of Religion (AAR), Denver, Nov. 2018.

2017 Invited seminar, Centre for Catholic Studies, Durham University, Invited lecture to Truro Theological Society. Invited keynote, opening colloquium of the St Andrews Fellowship Scheme, Invited seminar, Jerusalem Chamber Seminar, Westminster Abbey.

2016 Invited paper at the Glory of God conference, Durham University. Accepted paper on glory for the AAR, San Antonio, also a joint presentation there on pedagogy in science and religion. Gowland Lecture to the Science and Religion Forum on science and poetry. Invited seminar, Catholic University of Lyon.

2015 Seminar, King's College, London (for the 50th anniversary of the death of TS Eliot). Invited paper at the International Society for Science and Religion (ISSR), Vienna. Accepted paper for the ISSR meeting in Atlanta.

2014 Accepted paper, ESSSAT, Assisi. Co-authored paper to the International Society of the Study of the Origin of Life, Nara, Japan. Keynote at the Robert Grosseteste Conference at Grosseteste University College, Lincoln. Chaired session for the ISSR, San Diego. Presided at session of the AAR, San Diego.

2013 Guest Preacher, Westminster Abbey. Invited contributor, colloquium on the Incarnation at Copenhagen University. Invited keynote, Christian Faith and the Earth Conference, Stellenbosch, South Africa. Invited seminar presenter, Faraday Institute, Cambridge. Accepted paper at the 'Power of the Word' conference on poetry and prayer, Senate House, London.

2012 Invited respondent and presenter of accepted paper, ESSSAT, Tartu, Estonia.

2011 Invited contributor, high-level Templeton Colloquium on Deep Incarnation, Elsinore, Denmark. Invited speaker at the Society of Biblical Literature, San Francisco.

2010 Poster at the American Association for the Advancement of Science. Keynote addresses to the Society of Ordained Scientists and Christians in Science. Invited response at the AAR, Atlanta.

2009 Invited keynote addresses at the ISSR Conference on Darwin in Cambridge; Laidlaw College, New Zealand; Copenhagen University; the Society of St Alban and St Sergius, and the AAR, Montreal. Invited seminar, Science and Religion Discussion Group at Christ's College, Cambridge.

2008 Respondent to three reviewers of my monograph at the Graduate Theological Union at Berkeley. Accepted paper, ESSSAT, Sigtuna, Sweden. Invited paper, Conference on Environmental Ethics, Chania, Crete. Guest preacher at St John's College, Cambridge. Presented paper at the Society of New Testament Studies.

2007 Opening speaker at Colloquium on 'Vegetarianism as Spiritual Choice', University of Exeter. Invited contributor, Colloquium on Animal Theology, St Deiniol's Library. Invited seminar, Theology Dept, Durham University.

2006 Keynote speaker at the International Congress on Science and Religion, Tehran, Iran.

2005 Invited contributor, high-level Vatican Observatory/CTNS Conference on Theodicy, Castelgandolfo, Italy. Preached on science and faith in Quincentenary Series at Christ's College, Cambridge.

2002, 2003, 2009, 2011, 2016 Invited Speaker, Science and Religion Forum Annual Conference.

2000 presented seminar in the Senior Seminar series, Ian Ramsey Centre, Oxford.

Consultative work:

External Assessor, Council for the Humanities of Netherlands Organization for Scientific Research. Assessment of a senior scholar for the Government of South Africa. Member of Advisory Panel, Science, Technology and Religion Group, American Academy of Religion. Reviewed manuscripts for Oxford University Press, Cambridge University Press, Routledge, Bloomsbury, and journals including *Zygon*, *Astrobiology*, *International Journal of Molecular Science*, *Neotestamentica*, *Modern Theology*. Grant assessor for the John Templeton Foundation, the Templeton World Charities Foundation, and the Faraday Institute, Cambridge. Consultant on ancient texts for a major public sculpture project by Peter Randall-Page RA.

I am also on the panel of Bishops' Advisors for selection of ordinands for the Church of England, and on the panel of Inspectors for Periodic External Review of theological training institutions.

Editorial boards: *Ecotheology* and *Zygon*.

Conference Organiser:

2019 Co-organiser of workshop as part of the St Andrews Fellowship Scheme.
2011 Organiser of an invited colloquium on semiotics and faith, Cambridge.
2010 Organiser of a workshop for early-career scholars (with senior mentors in the field), Berkeley, California.
2009 Convenor of a panel at the American Academy of Religion.
2008 Organiser of an invited colloquium on 'Interpretation and the Origin of Life', Berkeley, California.
2004 Organiser, Science and Religion Forum Annual Conference, Exeter; also 'Reweaving the Rainbow' – poetry and science event in the Annual Festival of the British Association for the Advancement of Science; and OxfordPoets 2004 tour for Carcanet Press.

Visiting lectures to taught courses:

2000 Invited respondent to keynote speaker, CTNS-Templeton Science and Religion Workshop, St Anne's College, Oxford.

2000, 2002, co-presented Summer School on Green Faith, Sarum College, Salisbury

I have also taught sessions in two bioethics workshops for biology lecturers organized through the High Education Academy.

I have participated in a series of sessions for schoolteachers on issues in science and religion and environmental ethics (part of the AHRC-sponsored follow-up to 'Uses of the Bible').

I have lectured to classes at Princeton Theological Seminary, Wayne State University, New York University, Columbia University, Newman University College, Southern Theological Education and Training Scheme, Faraday Institute Summer School, Cambridge, and Sarum College.

I organised the visit of Holmes Rolston, III, to Exeter as part of his Templeton Prize-winning tour to the UK, 2003.

