Curriculum Vitae

Professor Celia Evangeline Deane-Drummond MA (Cantab), PhD, PGDip.C.S., BA(Hons), PGCE, PhD.

Marital status

Married. Two children Sara Elisabeth Drummond-Curtis, born 12/11/00. Mair Clare Drummond-Curtis, born 06/12/05.

Current employment.

Professor in Theology, University of Notre Dame, 130 Malloy Hall, Notre Dame, IN 46556, USA. Concurrent appointment with teaching responsibilities in the College of Science, August 2011.

1. Post-school education.

1977 BA (Honours) Degree in Natural Sciences, Part 2 Botany (2:1) Girton College, Cambridge University. Became *MA* in 1980.

1980 PhD in Plant Physiology, Reading University. Joint CASE award with Dr. Clarkson (ARC and *Oxford University*) and Dr. Johnson (*Reading University*).

1983 Post Graduate Diploma in Christian Studies (PGDip.C.S.) Regent College, Vancouver, Canada.

1989 BA (Honours) Degree in Theology, Trinity College, Bristol, CNAA (2:1).

1992 PhD, Manchester Victoria University, Department of Theological Studies. Supervisor, Professor R. Bauckham.

1994 Post Graduate Certificate in Education (Secondary), The Manchester Metropolitan University. Religious Education, second subject Science.

2. Career history.

Date of first appointment to University College Chester: September 1994 as Lecturer in Theology. Promotion to Senior Lecturer in September 1996. Transfer to permanent contract in December 1998. Promoted to Reader in September 1999. Awarded a Professorial title in August 2000. College became University of Chester in 2005. Professor in Theology and the Biosicences, 2000-2011.

1991-1993 (Part-time) Manchester University, Visiting lecturer in theological studies department and Extra-mural department (Biology and Theology, Celtic Spirituality, Global Theology, Caring for the Earth)

1991-1994, International Consultancy for Religion, Education and Culture (ICOREC), Manchester Metropolitan University (Part-time).

1984(Jan)-1986(Dec) Lectureship, Botany, Durham University.

1982-1983 SERC Post-doctoral research fellow, Botany, Cambridge University.

1980-1982 Post-doctoral research fellow, Botany, University of British Columbia, Vancouver, Canada

- 3. Teaching (for science teaching see appendix)
- 3.1 Current Teaching (University of Notre Dame)

2011-2012. Semester 1: *Science and Wisdom*, doctoral seminar, 3 credits; *Environmental Ethics*, Masters Program, Theology, 3 credits; *Global Bioethics*, Eck Institute for Global Health, Masters Program in Global Health, core course 2 credits; College of Science, *Science and Values*, open enrollment undergraduate program, 1 credit.

2013-2014. Theology and Science, Year 2 Foundations Course; Global Bioethics, Core Masters Program in Global Health; Sustainability Minor Core Course (undergraduate); Know Your Catholic Faith Catholic Social Teaching and the Environment (undergraduate); "Environmental Photography and Theology" to Photo Futures with Terry Evans (undergraduate); Doctoral Reading Course (John Slattery).

3.2 University of Chester, theology and religious studies teaching experience.

Honors Degree programs for BA (Combined honors), Bed. and BTh (Single honors). Core level 4, 50-100 students; level 5, 30-45 students and elective level 6/M 15-20 students.

- (a) Level 4 degree modules taught: Philosophy and Theology, Introduction to Christian Theology#*, Christianity and Environment#, Beliefs and Practices of the Christian Church, Celtic Christianity#, Black Theology#, Religion and Ethics#, Christian Moral Issues, Feminist Theology#, Christianity*.
- (b) Level 5 degree modules taught: The Development of Christian Theology#*, Methodology in Theology and Religious Studies#, Contemporary Theological Issues*, The Rise of Modern Theology*, Reformation, Philosophy of Religion*.
- (c) Level 6/M degree modules taught: Historical and Contemporary Debates in Christian Theology#, Eco-Theology and Environmental Ethics#, New Frontiers in Biology and Theology#, Issues in Christian Theology*, Research Methods in Applied Theology*, Research Methods in Applied Theology and Adult Education, Philosophy of Religion*, Theology of Adult Education#, Crisis in Belief*, Religion and Society in Victorian Britain*, Contemporary Issues in Medical Ethics#, Science and Religion (M only)#, contributor to Revolution and Evolution Summer School, joint BA humanities program, supervision of numerous level 3 undergraduate dissertations.

Note: for (a) to (c) not all modules run every year, but are on a rolling program of study, .#Module developed * Team teaching. Module coordinator for team teaching of Level 1 *Introduction to Christian Theology* (Core Module), Level 2 *The Development of Christian Theology* (Core module) and Level 3/M *Issues in Christian Theology*, *Research*

Methods in Applied Theology, Crisis in Belief and Religion and Society in Victorian Britain, Urban Theology Science and Religion is a level M course program for the postgraduate and masters program in Science and Religion (see below).

Teaching responsibilities 2008-2011

All modules are year long (24 weeks) except masters modules and were on rolling program.

Christian Theology: Themes and Methods (Level 4); Christian Ethics (Level 5), Ecotheology and Environmental Ethics (Level 6); Contemporary Issues in Medical Ethics (Level 6); Research Dissertation (Level 6); Science and Religion (Level M) Theology After Darwin* (Level M) Environment and Animals: Theology and Ethics* (Level M). *Under development.

3.4 Activities in course development.

MA Science and Religion, University of Chester.

Development and Director of postgraduate program in Science and Religion (from 2002), with exit awards at Certificate, Diploma and Masters Level, with optional modules drawn from department of biological sciences, department of health and social science, geography department and theology and religious studies department. Program was successfully validated through the University of Liverpool in December 2003, and students were admitted onto the pilot program in 2003/4. After Chester received degree and postgraduate degree awarding powers the University awards the degree. The degree has become a stream in an overall MA Theology provision in 2009/10.

3.5 Research supervision for doctoral degrees.

Peter Cox: PhD received, 2002. Winner of one of three 1997 University College Chester prizes for research. October 1997. Rev. Stephen Bellamy. PhD Thesis completed and passed, September 2006, Anne Marie Sowerbutts, completed and passed June 2008; Lisa Goddard, completed and passed March 2008. Winner of Gladstone student bursary. John McKoewon, joint, completed and passed 2011.. Andrew Hunt, M Phil thesis, passed July 2007. Ms. Jackie Turvey, continuing registration, expected to complete in 2014.

Current part time doctoral student, continued affiliation with University of Chester.

Rebecca Artinian –Kaiser. Rebecca has an office at the University of Notre Dame.

University of Notre Dame

Doctoral Committee for Dan Castillo, Theology GLOBES (Global Perspectives in Biology and Environmental Studies) program, dissertation on liberation theology and economics.

3.6 External examiner.

- 1. For theology in B.Ed. Honors and BA Hons degrees, Newman College affiliated to Birmingham and Coventry Universities, 1995/6-1998/9.
- 2. For University of Lampeter, 2003-2006; Bth in Theology, MA in Religion and Ecology, 2003-2007; 2003-2004 for Milltown Institute: MMin, Mission Theology and BTh in Spirituality and Pastoral Ministry; 2004-2007 Dalgan, MA Religion and Ecology.
- 3. For London School of Theology (LST) undergraduate program 2007-2011, including theology and ethics
- 4. For the following doctoral degrees at Universities listed:

Alison Simpson, Aberdeen University (2000);

Roger Hitchings, London University (LBC) (2001);

Julie Norris, Birmingham University (Queens Foundation) (2002);

Eva Lotta Granten, University of Lund (Respondent) (2003)

Kerry George University of Monash, Australia (2009).

Revd. Tim Bull, Kings' College, London (2011).

Crina Gschwandtner (Durham, 2012)

- 5. External evaluator according to the 'Standard Evaluation Protocol' in March 2007 for Heyendaal Institute, an interdisciplinary research centre for theology, sciences and culture, Radboud University Nijmegen, The Netherlands.
- **6.** External RAE assessor for Open University in relation to Maryvale Institute (Birmingham), which included evaluation of all book outputs of the Institute, ranging from theology to ethics.

See also below under expert committees for international external evaluation roles.

1. General

4.1 Administration

University of Chester

- Director of MA in Adult Education with Theological Reflection, 1996-2002
- Director of the MA in Science and Religion, 2002- 2011
- Director and founder of the Centre for Religion and the Biosciences. 2002-2011.
- Research Degrees Committee, 2002-2009.
- Academic personal tutor for about thirty students.

- Program Leader for Batchelor of Theology BTh (Hons) Degree (2006-2009) .
- Board of Arts and Humanities from 2002-6
- Postgraduate Degrees Committee 1996-2002 (Committee discontinued in 2002).
- St Deiniol's library link tutor (from 2002-2011)
- Roman Catholic Certificate in Religious Studies link tutor 2001-2005

University of Notre Dame (2011-

- Fellow of John Reilly Center for Science, Technology and Values, directed by Professor Don Howard, Department of Philosophy.
- Fellow of Eck Center for Global Health, interdisciplinary Center directed by Professor David Seversen.
- Leader of Sustainability Reading Group. This is a three-year research project (Jan 2012-Dec2014) that has attracted internal ISLA funding of \$9,000. See under grants awarded.
- Evaluation of doctoral student applications for theology and science track of history and philosophy of science program.
- Committee for evaluation of applications for Notre Dame Institute for Advanced Study Fellowships, and Templeton funded advanced fellowships (\$1.8 M) NDIAS directed by Professor Vittorio Hosle 2012-2013; Professor Brad Gregory, 2013-.
- Committee for 'Bridging the Gap Between Stem Cell Science and Society' project at Notre Dame, 2012-2013, directed by Professor David Hyde, department of Biological Sciences.
- Member of Evolution Working Group 2011-2012. Interdisciplinary group led by Professor Grant Ramsey, department of philosophy.
- Member of Nanotechnology Working Group. Interdisciplinary group 2011-2012.
- Member of the Virtues Working Group, 2013-2014.
- Systematic Theology area coordinator Master of Theological Studies Program, 2013-2014.
- Committee, Moral Theology Area, Theology Department, 2013-2014.
- Committee, Systematic Theology Area, Theology Department, 2013-2014.

4.2 Staff Development

1. Erasamus Intensive course, "Intercultural Relations and Education: Theories, Policies and Practices", Lisbon, March 1994

- 2. Open University, "Writing for Open Learning Workshop", November 1994.
- 3. Manchester University, "Desk top Publishing: Quark X Press", November 1994
- 4. Achieved membership of Institute of Learning and Teaching, (ILT), August 2000.
- 5. Awarded Wakonse Fellowship in 2012 by the Kaneb Center, University of Notre, Dame, to attend Wakonse Summer School for University Teachers, Camp Miniwanka, Lake Michigan, May 23-29 2012. See http://www.wakonse.org/.

5. Research

5.1 Current research interests:

Constructive systematic theology informed by Roman Catholic contemporary and historical sources (particularly Thomas Aquinas and Hans Urs von Balthasar) in its relationship with creation and the natural world as understood by science; bioethics, particularly environmental ethics, genetics and ethics, animal ethics, global development, end of life questions, transhumanism. Interdisciplinary project at Princeton Center of Theological Inquiry (CTI), co-leader of project on: human nature and evolution, 2012-2013.

5.2.1 Research grants and contracts

- **1.** April 1996: Winner of University College Chester research prize for BA Humanities staff of £1000 in order to obtain remission from teaching for short three month sabbatical leave, summer 1996. Used to complete the book *Theology and Biotechnology: Implications for a New Science* (1997).
- 2. Grant of £30,000 from the St. Gabriel Trust (1995) to develop masters program in adult education and theology by open learning.
- 3. Joint grant of £2,000 from the Christendom Trust (1997) for research project with the Centre for the Study of Environmental Change, Lancaster University. Topic investigated: 'Religious Dimensions of Public Attitudes to the New Genetic Technology.' Grant used to organize a Colloquium at Lancaster University entitled 'Re-Ordering Nature: Theology and the New Genetics', March 8th, 2000. Cooperation with the Centre for the Study of Environmental Change (CSEC) for sociological approach to public attitudes to biotechnology (Lancaster University)
- 4. Grant of £5,000 a year for three years (from 2001/2002) to help establish the Centre for Religion and the Biosciences at University College Chester from the Christendom Trust. Further information about the centre is detailed below.
- 5. Metanexus Grant of \$5000/year for Local Society Initiative, 2003/4, 2004/5, 2005/6

- 6. Grant (Equivalent £5,000) from St Deiniol's library to support research colloquium on *Genetics and Ethics*, March 2002. The colloquium led to the production of the edited book, *Brave New World: Theology, Ethics and the Human Genome*, 2003.
- 7. £8,000 Grant from Arts and Humanities Research Board for Sabbatical Leave, 2002/3 to complete *The Ethics of Nature*, published in 2004.
- 8. £20,000 Grant from the John Templeton Foundation for Sabbatical Leave, February-March 2005 to complete book, *Wonder and Wisdom*, published in 2006.
- 9. Grant (Equivalent £5,000) from St Deiniol's library to support Colloquium on Medical Ethics, June 2005. The colloquium led to the production of the book: *Future Perfect? God, Medicine and Human Identity*, edited with Peter Scott, published 2006.
- 10. Grant (equivalent to £2,500) from St Deiniol's library to support Colloquium on *Animals, Theology and Ethics*, November 2007. The colloquium led to the production of an edited book entitled Creaturely Theology: *On God, Humans and Other Animals*, SCM Press, 2009.
- 11. Advisor for Manchester University bid for AHRC Religion and Society Programme on *Religion and Climate Change* with Peter Scott and Elaine Graham
- 12. AHRC Research Leave Grant, £28,000, for eight-month sabbatical leave, September 2007 to 1st May, 2008. Grant for completion of book, *Christ and Evolution: Wonder and Wisdom*, was awarded A* rating, which is highest possible rating and, 'must be funded as a matter of very highest priority'. Published concurrently with Fortress Press (USA) and SCM Press (UK)
- 13. Knowledge Transfer Grant from CAFOD for a 12 months secondment from University teaching and administration July 2009 to July 2010. Award £48,000.
- 14. Awarded \$3,000 a year for three years, 2011-2014, to run a cross disciplinary reading group on Sustainability, Institute for Study of the Liberal Arts (ISLA), University of Notre Dame.
- 15. October 2011. Award of Senior Fellowship \$150,000 for Project in Human Nature and Evolution, September 2012-June 2013, Center of Theological Inquiry, Princeton. Responsibility includes selection and joint leadership of a team of eight scholars and two postdoctoral fellows.

See http://www.ctinquiry.org/program#current inquiry

5.2.2 On-going collaborative research projects

1. The Colossian Forum on Faith Science and Culture, Science and Theology. Invited participant; three-year Interdisciplinary Research Program, coordinated by William Cavanaugh and James Smith, Beyond Galileo—to Chalcedon: Re-imagining the Intersection of Evolution and

the Fall. First Meeting, Michigan, June 22nd -25th, 2013. Second meeting June 9th -13th 2014, New Buffalo.

2. Contribution to five year interdisciplinary Project: *Understanding Human-Environmental Interfaces in Anthropocene River Systems through Transdisciplinary Collaborations'* joint project between humanities and geographical and ecological sciences, Principal Investigator, Dr Jason Kelly, Director, IUPUI Arts and Humanities Institute Associate Professor of British History, IUPU, Indianapolis and Professor Helen Berry, Newcastle upon Tyne, First conference, Indianapolis USA, 23rd-25th January 2014.

5.3 Research Centre for Religion and the Biosciences, University of Chester. Director, 2001-2011.

Centre was launched in 2001/2002, with final approval from Academic Board in March 2000, following prior approval from the Board of Arts and Humanities and the Research Committee. The formal launch date was 28th February 2002 and was officially opened by Rev. Dr Arthur Peacocke, winner of the Templeton Prize for Progress in Religion in 2001 and attracted over a hundred in the audience. This Centre focuses on those aspects of the dialogue between religion, particularly Christianity, and the biosciences that are of particular relevance to public debate. The Centre is particularly concerned with theological and ethical issues arising from engagement with the biosciences, including environmental science, medicine and genetic engineering. Its mission is threefold: research, such as organizing research conferences and publications. education, including promotion of a new MA in science and religion, and public discourse, involving a series of public lectures in issues of public interest. It involves a strategic link between members of the Biology Department and members of staff from the Theology and Religious Studies Department. In 2003 the Centre became incorporated into a Local Society Initiative supported by Metanexus, allowed considerable expansion of its activities, including a doubling of its membership in the first year, three guest lectures a year, round table discussion groups, and an annual conference. The themes of three lecture series have been, Global Ecology (2003/4), Genetics: Ethical Questions (2004/5); Animal Matters (2005/6). Non-themed series were held in 2006/7 and 2007/8. A themed series of lectures entitled *Theology After Darwin* was held in 2008/9 and attracted audiences of over 100 on each occasion. A further lecture series on *Ecology and Theology* was held in 2009/10 and will continue in 2010/11. Two research colloquia drawing on international expertise on bio medical ethics were organized at St Deiniol's library in 2002 and 2005 (see research funding), with edited volumes arising out of these colloquia (see publications). A third international research colloquium in November 2007 on Animals, Theology and Ethics led to the publication of a book entitled Creaturely Theology: On God, Humans and Other Animals, jointly edited with David Clough. Published with SCM Press, 2009. In May 2011 the Centre hosted the European Forum for the

Study of Religion and Environment, *Animals as Religious Subjects*. The conference keynote papers to be published in a book under the same title in 2013.

5.4 Outside Recognition 5.4.1 Prizes awarded.

- 1. Award winner for 1997 John Templeton Exemplary Essay prize in Humility Theology in the category of theology and the natural sciences for the article published in *The Heythrop Journal* in 1995 entitled 'Genetic Engineering *for* the Environment: Ethical Implications of the Biotechnology Revolution.'
- 2. Winner of 1997/1998 Templeton science and religion course competition (\$10, 000) for course entitled 'New Frontiers in Biology and Theology' taught at Level 3 (BA Hums, BA Combined Studies, BTh) and Level M program (MEd, MTh) and MSc degree in Environmental Science. Course taught beginning in February 1999 and September 1999.
- 3. Winner of Development Grant (\$2,000) for contribution to the development of science and religion in the curriculum.
- 4. Theology and Biotechnology nominated for the 1998 Templeton Prize for Outstanding Books in Theology and the Natural Sciences.
- 5. Two books, Ethics of Nature and Re-Ordering Nature selected for Outstanding books in science and religion series in 2004 and 2005, John Templeton.
- 6. *Creation Through Wisdom* nominated for the 2007 Louiseville Grawemeyer Award in Religion, November 2005
- 7. Nominated and selected for various biographical collections, including, for example, *Who's Who in Catholic Public Life*, *Great Women of the 21st Century*, *Woman of the Year*, 2006.
- 8. Elected Honorary Professor in Theology and Science, Durham University, UK, October 2012.

5.4.2 Professional Contribution(a) Membership of Societies/Committees.

- Society for the Study of Theology (SST) (UK)
- American Academy of Religion (AAR) (USA)
- Society for Christian Ethics (SCE) (USA)
- Catholic Theological Association of America (CTSA) Serving on the Science and Theology interest group committee, 2012-2015 with Gloria Schwaab and Matthew Ashley.

- Catholic Theological Association (CTA) of Great Britain. I have also served as a committee member for several years and sub-committee on science and religion.
- International advisory panel for *Centre for Faith and Culture*, Westminster College, Oxford, 1998-2003.
- European Society for Women in Theological Research. (ESWTR)
- The Victoria Institute
- Association of Teachers in Moral Theology (ATMT)
- The Institute of Learning and Teaching (ILT)
- Society for the Study of Christian Ethics (UK)
- Foundation member, *International Society for Science and Religion*, founded in Granada, 2002. (ISSSR)
- European Society for the Study of Science and Theology. (ESSSAT) Expert committee for evaluation of prizes for ESSSAT junior awards, 2013-4.
- Science and Religion Forum (SRF)
- European Forum for the Study of Religion and the Environment. (EFSRE)
- International Society for the Study of Religion, Nature and Culture

(b) Leadership roles

- 1. Science and Religion Forum (www.srforum.org). Elected chair, 2003-2006. This forum is dedicated to the public discussion of issues in science and faith and wider dissemination of academic ideas.
- 2. European Forum for the Study of Religion and Environment. Elected Vice Chair in May 2009 and elected Chair in May 2011. Acting director for EFSRE conference that took place in Chester/Gladstone's Library May 2011 on *Animals as Religious Subjects*. Planning committee for conference in Sweden in May 2013 on Religion, Nature and Technology: Transdisciplinary Perspectives. Role as Chair will expire in 2015.

(c)Expert committees

- 1. International Advisory Board for the John Templeton Foundation, 2002-2005, 2007-2010, 2011-present. **October 18-21, 2013**, Rio de Janeiro, Mexico.
- 2. Roman Catholic Bishop's Committee of England and Wales.
- 3. Following guest lecture given to the 'Faith and Culture' Roman Catholic Bishop's Committee in April 1997, helped formulate a new policy on environmental issues, including consultation in October 2004.
- 4. Executive committee for the *European Forum for the Study of Religion and the Environment*, also founding member from 2004, see http://www.hf.ntnu.no/relnateur/
- 5. Executive committee for the *International Society for the Study of Religion*, *Nature and Culture*, founded in 2005.
- 6. Executive international committee for *Christian Faith and the Earth* Project, organized by Professor Ernst Conradie (South Africa),

culminating in a conference in 2012 in South Africa. Joint editor for volume emerging from conference.

- 7. Co-opted member of the Ethics and Law Committee of the Human Fertilization and Embryology Authority, from February 2004 to 2007
- 8. External international panel of 25 academics for *John Templeton Award in Theological Promise*, coordinated by Michael Welker, University of Heidelberg, Germany, 2006-2009
- 9. Distinguished Program Development Committee for John Templeton sponsored project: *Pontifical Council for Culture*, Science, Theology and the Ontological Quest, STOQ II, Vatican, from April 2007-2010.
- 10. Committee member, science and religion forum, 2006-7.
- 11. One of five members invited by the Swedish Research Council and the Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (Formas) to be on the Humanities, Social Sciences, and Educational Sciences Expert Panel for the mid-term evaluation of the "Linnaeus Grants" from **26 January to 1 February 2014** in Sweden. In 2008 20 Swedish research centers were each granted 50 to 95 million SEK (corresponding to 6 to 11 million EUR or 8 to 15 million USD) over a 10-year period.
- 12. Expert Advisory Panel for two year "Faith and Science Teaching (FAST) Project," The Colossian Forum in partnership with The Kuyers Institute of Christian Teaching and Learning (Calvin College), beginning June 16th 2014.
- 13. Science and Theology Expert for Council of Independent Colleges (CIC) and its Network for Vocation in Undergraduate Education (NetVUE) coordinated by Professor David Cunningham, Hope College. First meeting June 16th -20th 2014.

5.4.3 Fellowships

2003 Elected Honorary Fellow of St Deiniol's library, now Gladstone's Library.

2004 Elected Fellow of the Royal Society of Arts and Commerce (FRSA)

5.4.4 Papers invited at symposia and conferences (theology, for papers given at national and international conferences in science, see Appendix)

Academic

- 1. "Trinity and Ecology in Jürgen Moltmann's Doctrine of Creation", short paper at first international meeting of the Research Institute for Systematic Theology, Kings College, London, Sept., 1990.
- 2. The Oxford Centre for Ethics, Environment and Society (OCEES), Mansfield College, Oxford University. Chair for conference on environmental ethics on October 2nd, 1992.

- 3. The Society for the Study of Christian Ethics, Annual Conference, 4-6th September, 1993. Reply to Michael Northcott's paper 'ls there a Green Christian Ethic?.
- 4. "The Two Horizons: Introducing Ecology into Theological Education" at the first International Orthodox Summer School in Theology and Ecology, entitled "Religious Education and the Environment", Halki, Istanbul, June 18-30, 1994.
- 5. Reply to Fraser Watts 'Science and Eschatology', Society for the Study of Theology, Cambridge University, April 17th, 1996.
- 6. 'Sophia as a Metaphor for an EcoTheology', day conference on Holy Wisdom in Christian Tradition, Marian Study Centre, held at Sarum College, May 31st 1997.
- 7. Short paper entitled 'Wisdom and the Future of Science' for 1998 Annual Conference, Catholic Theological Association, 'The Uses of the Bible', Trinity and All Saints College, Leeds, September 5th, 1998.
- 8. Science and Religion Forum Annual Conference: 'Genetic Technology', University College Chester. 'The Dawn of the Clone Age: Theological and Ethical Implications of the New Biotechnology', 15th September, 1998.
- 9. Keynote lecture, 'Wisdom: A Voice for Theology at the Boundary with Science', at John Templeton Science and Religion Workshop, Ian Ramsey Centre, Oxford, January 11th, 1999.
- 10. Paper for Theology and Ecology group entitled 'A New Earth? The New Genetics in the Light of Jürgen Moltmann's Eschatology', for 'Eschatology', Society for the Study of Theology, Edinburgh, April 12-14th, 1999.
- 11. Main speaker at the Catholic Theological Association Annual Conference, Trinity and All Saints College, Leeds, September 1-5th, 1999. Theme of conference, The Responsibilities of Theology to Church and Society. Title: 'Theology and the Culture of the Sciences'.
- 12. Joint speaker and coordinator of one-day colloquium entitled 'ReOrdering Nature: Theology and the New Genetics'. Title of talk with Professor Robin Grove White and Dr Bronislaw Szerszynski 'Genetically Modified Theology: The Religious Dimension of Public Concern over Agricultural Biotechnology', March 8th, 2000, Lancaster University, sponsored by the Christendom Trust. Also acted as Chair for all afternoon sessions.
- 13. Speaker at Association for Teachers in Moral Theology, 'Developing a Wisdom Ethic in a Biological Age', Leeds, November 10th, 2001.
- 14. Speaker at International Symposium on Panentheism, Windsor, sponsored by Humble Approach Initiative, Mary Anne Meyers, John Templeton Foundation, 'The Logos as Wisdom: the Starting Point for a Sophianic Theology of Creation', December 8/9th, 2001
- 15. Speaker on 'Wisdom, Justice and Environmental Decision Making in a Biotechnological Age' at Colloquium on Environmental Decision Making

- in a Technological Age, chaired by R.J. Berry, April 2002, St George's House, Windsor.
- 16. Keynote speaker for 'Life on a Threatened Planet: Genetic Controversy and Environmental Ethics', organized by the Centre for Theology and the Natural Science, University of Berkeley, June 5-9th, 2002.
- 17. Keynote speaker, Ian Ramsey Centre Science and Religion Conference, 'Wisdom; A Voice for Theology at the Boundary with Science', July 2002.
- 18. Keynote speaker, Christian Anthropology and Biotechnological Progress Conference, Orthodox Academy of Crete, 26th-29th September, 2002 'The Challenge of Biotechnology for the Environment'.
- 19. British Ecological Society Meeting: York: December 19th, 2002, Recovering the art of practical wisdom (prudence) for environmental decision-making.
- 20. Invited lecture, Centre for ethics and values, Garrett Evangelical Theological Seminary, Illinois, USA, Series on Is there forbidden knowledge? 'Forbidden Knowledge: A Theologian's View', April 25th, 2003.
- 21. 'Putting Preimplantation Genetic Diagnosis in its Context: A Christian Ethical Reponse', Science and Religion Forum Conference, September, 2003.
- 22. Keynote speaker for 'Theological and Scientific Perspectives on Biodiversity Conference, Adelaide, Australia, January 23rd-26th, 2004. Lecture 1: Living From the Sabbath: An Ecotheological Basis for Approaching Biodiversity', Lecture 2. 'Genetic Interventions in Nature: Perspective from a Christian Ethic of Wisdom'.
- 23. Keynote speaker for Streams of Wisdom? Science, Theology and Cultural Dynamics.ESSSAT. Tenth European Conference, Barcelona, April 1-6th, 2004. 'Where Streams Meet? Ecology and Theological Wisdom from the East and the West'
- 24. 'Plumbing the Depths: A Recovery of Natural Law and Natural Wisdom in the Context of Debates about Evolutionary Purpose', Paper presented to International Colloquium on Purpose in Evolution, sponsored by Humble Approach Initiative, Mary Anne Meyers, John Templeton Foundation, Castel Gandolfo, Italy, June 24-26, 2004 25. Keynote speaker: Fabricated Humans? Human Genetics, Ethics and the Christian Wisdom Tradition, Ian Ramsey Centre Conference on A Posthuman Future? St Anne's College, Oxford, July 21st, 2004 26. Research Symposium on Nature and Ethics, Nassau, Bahamas, John Templeton Foundation, October 1-2nd, 2004,: The Ontology of Ethics, 'Ethics, evolution and human identity'
- 27. Religion and Environment in Europe 4 June 2005, Institute for Church and Environment, Theological Philosophical College, Benediktbeuern, Germany, 'Environmental Justice and the Economy: A Christian Theologian's View'.
- 28. Key note speaker: Religion and Science: Old Enemies or New Friends? Modern Churchpeople's Union Conference, July 12-15th 2005

- 'Finding Wonder, Seeking Wisdom: Reflections at the Boundary of Science and Religion'.
- 29. Keynote speaker for American Scientific Affiliation annual conference on Embedding Christian Values in Science and Technology, Calvin College, July 2006, 'A Recovery of Wisdom as Virtue for an Ethics of Genetics', and seminar for American Scientific Affiliation, 'Weaving Wonder and Wisdom: Developing A Christian Face for Values in Science'
- 30. Formal response to keynote paper entitled 'Islam and Environmental Sustainability' by Dr. Mawil Izzi Dien, at Science and Religion Forum annual conference, Creation and the Abrahamic Faiths, Manchester, September 11th-13th, 2006.
- 31. Formal responses to all plenary speakers at BIAMS (British and Irish Association of Mission Studies) Conference, London, Christian Mission and Environmental Justice, October 4th, 2006.
- 32. Speaker 'Animal Ethics: Where Do We Go From Here?', at Conference entitled, 'For the Love of the Church: Essays in Celebration and Honour of Kevin Kelly', Liverpool Hope University, March 9th-11th, 2007.
- 33. Russell Fellowship Award Conference, Centre for Theology and the Natural Sciences (CTNS), Berkeley, USA. Working title of conference paper, 'Shadow Sophia in Christological perspective: The evolution of sin and the redemption of nature.' March 31st, 2007. Fellowship also included public lecture on The Search for Wisdom and the New Genetics and taught sessions with doctoral students.
- 34. Keynote speaker for "Linnaeus and Homo Religiosus Historical and Contemporary Perspectives on the Biological Roots of Religious Awareness and Human Identity." May 30 June 2, 2007, Uppsala University, Sweden. Title of lecture, 'Are Animals Moral? A Theological Appraisal of the Evolution of Vice and Virtue'.
- 35. Key note speaker at Catholic-Shia Conference, Worth Abbey, Ethics in Today's Society, 'Seeking Practical Wisdom: A Roman Catholic Approach to Genethics as a Case Study in Bioethics', Worth Abbey , July 9^{th} , 2007.
- 36. Response to Steven Mithen: Gowland Lecture, God, Evolution and the Mind, Science and Religion Forum Annual Conference, University of Kent at Canterbury, September 6th-9th, 2007.
- 37. Keynote speaker 'Living as Imago Christi', European Forum on the Human Person in the Twenty First Century, Athens, 18-24th September, 2007.
- 38. Contributed paper 'Are Animals Moral? The Evolution of Vice and Virtue' to Theology and Animals International Colloquium, organized under the auspices of the Centre for Religion and the Biosciences, November 2nd-4th 2007, St Deiniol's library, Hawarden.
- 39. 'The Breadth of Glory: A Trinitarian Eschatology for the Earth through Critical Engagement with Hans Urs von Balthasar', keynote paper for Society for Study of Theology, Annual Conference, The Netherlands, April 1st, 2009.
- 40. Keynote paper, 'Degrees of Freedom: Humans as Primates in Dialogue with Hans Urs von Balthasar', for Animality: Revolutions to Come, Liverpool Hope University, April 23rd-24th, 2009.

- 41. Keynote address, 'The Ethics of Assisted Dying: A Case for a Recovery of the Prudence Among the Virtues', Eastern Orthodox And Western Christian Perspectives On Bioethics Conference, University Of Durham, 27-29 April 2009
- 42. Contributor to Building Bridges Seminar. Muslim Christian Dialogue Meeting on Science and Religion, hosted by Archbishop Rowan Williams, Istanbul, June 15th -19th, 2009.
- 43. Louvain Explorations in Systematic Theology, VII, Congress on Discerning Creation in a Scattering World, Final Plenary Keynote Speaker, 28th-31st October, 2009, Catholic University at Louvain, Belgium.
- 44. John Reilly Centre Conference on Darwin in 21st Century: Nature, Humanity and God, Notre Dame University, USA, keynote speaker, 'Beyond Separation or Synthesis: Christ and Evolution', 2nd-5th Nov. 2009.
- 45. Keynote speaker on 'Thinking Deeply about Creation: Christ and Evolution' for Congress: Theory of Evolution and Belief in Creation, Katholisch-Theologische Fakultat, University of Vienna, February 22nd-28th 2010.
- 46. Keynote speaker on 'The Good, the Bad and the Ugly: Wonder, Awe and Paying Attention to Nature', for Aesth/ethics in Environmental Change Workshop, EFSRE, Hiddensee, Germany, May 23rd-28th, 2010.
- 47. Short paper presented on 'Sustainable Development' for Catholic World Congress in Ethics, Trent, Italy, July 22nd-28th, 2010.
- 48. 'A Case for Collective Conscience: Climategate, COP-15, and Climate Justice', Keynote paper presented to the Society for the Study of Christian Ethics conference on Theology and Climate Change, Cambridge, 3rd-5th September, 2010.
- 49. President for Animals and Religion Working Group Session Thinking Animals, Rethinking Theology: Abrahamic and Indigenous Traditions, American Academy of Religion, AAR, Atlanta October 30th, 2010.
- 50. 'Contested Ground Post-COP-15: Theological Arguments for Climate Justice', for Climate Change: Rethinking Contested Concepts, Religion and Ecology Group, American Academy of Religion, AAR, Atlanta, November 1st 2010.
- 51. 'The Nature of Freedom in a Post-Darwinian World', keynote speaker for colloquium/conference, Anthropos: Developing a Theological Anthropology for the 21st Century, University of Louvain, Belgium, April 13th -16th 2011.
- 52. 'Ecological Conversion in a Changing Climate: An Ecumenical Perspective on Ecological Solidarity', paper presented at the University of Bamberg for Ecumenism and Orthodoxy in Europe conference, June 16th -18th 2011, to celebrate Jürgen Moltmann's 85th birthday.
- 53. 'Human Responsibilities to Other Animals: Biotechnology and Sustainability'" key address for Belief in Dialogue: Science, Culture and Modernity, Sponsored by British Council and International Society for the Study of Science and Religion, American University of Sharjah, June 21-23rd, 2011.

- 54. 'Joining in the Dance: Ecology in Roman Catholic Social Teaching', keynote address for Catholic Theological Society of Great Britain, St Mary's College, London, UK, September 5th-8th, 2011.
- 55. 'Wisdom Remembered: The Place of Theological Wisdom in the Academy', Keynote featured lecture, Baylor Institute of Faith and Thought, Educating for Wisdom in the 21st Century, Baylor University, USA, October 27-29th 2011.
- 56. 'In God's Image and Likeness', key contributor to Templeton funded colloquium on Human Becoming, in celebration of Owen Gingerich's 80th Birthday, Omni Island Resort, Florida, February 26th-29th, 2012.
- 57. 'How is Theology Inspired by the Sciences?,in Conceptions of Truth and Unity of Knowledge, Notre Dame Institute for Advanced Study Conference, April 12-14th, 2012.
- 58. 'Human Reason and Animal Minds', presentation for Association of Teachers in Moral Theology, Leeds, May 12-15th, 2012.
- 59. What are the Resources for Building a Christian Ethos in a Time of Ecological Devastation?, Plenary Lecture, Christian Faith and the Earth Conference, Sustainability Institute, University of the Western Cape, South Africa, August 5-13, 2012.
- 60. "Is 'human nature' also 'speciesist'? Evolutionary perspectives on H.sapiens and other hominids"., Contribution to Panel, *Ascending to the Margins: Speciesism as a Concern in Catholic Thought* Other Panelists: John Berkman, Regis College, University of Toronto, Charles Camosy, Fordham University, *Society for the Study of Christian Ethics*, Chicago, Friday January 4th, 2013.
- 61. Panel for 'New Directions in Biology', Science and Faith Conference, Durham University, April 12-14th, 2013. Panel televised and now available on line.
- 62. 'Evolving Social Worlds: Theodrama and Niche Construction', presentation for Association of Teachers in Moral Theology, Leeds, May 17-19th 2013.
- 63. Contribution to 'Rivers of the Anthropocene', joint project between humanities and geographical and ecological sciences, Indianapolis and Newcastle upon Tyne, First conference, Indianapolis USA, 23rd-25th January 2014.
- 64. 'Human Becoming and the Construction of Community Niche: A Transdisciplinary Approach', Joint Panel with Agustin Feuntes and Grant Ramsey for *Transfusion and Transformation: The Creative Potential of Interdisciplinary Knowledge Exchange*. Institute of Advanced Study, Durham University, UK, July 15th-17th 2014

Pedagogical

- 1. "The Greening of Jürgen Moltmann's Theology?", day conference and workshops at the launch of the *Green Theology Group*, May 20, 1991.
- 2. Keynote speaker at the Christian Theology Trust's Annual Conference for 'A' Level Teachers, Wistaston Hall, Crewe, June 28th, 1999.

- 3. Keynote speaker at the Annual Conference of the Fellowship of St. Sergius and St. Alban, 'The Church in the Twenty First Century', Stourbridge, August 25th, 1999. Title of talk: 'Seeking Wisdom: The Church and the New Biology'.
- 4. Keynote speaker at 'Spirit, Science and Society' Conference for Anglican Clergy of Diocese of Leicester, 14th September 1999. Title of paper, 'Science: Biotechnology: Implications for Theology and Ethics'.
- 5. Key speaker at one-day conference entitled 'Creation and the Environment in Christian Perspective'. Title of talk: 'Co-Creators or Manipulators? Discerning the Ways of God in a World of Rapidly Expanding Possibilities" Newman College, Birmingham, February 19th, 2000. Sponsored by the Faith and Culture Committee of the Roman Catholic Bishop's Conference of England and Wales.
- 6. C.S Lewis Conference: 'Making all Things New: The Good, the True and the Beautiful'? Science Seminar, August 4th, 2005 'How does experiencing wonder in living creatures relate to a theology of wonder and beauty?'
- 7. Keynote speaker for Faith in Science Conference for Blackburn Diocese Board of Ministry, Clitheroe, 30th October, 2006.
- 8. Keynote speaker at Christians, Evolution and Creation Conference, 'Plumbing the Depths: Natural Law, Natural Wisdom and Evolutionary Purpose', Newman Association, St Albans Christian Study Centre, June 2nd. 2007
- 9. Response to 'Scientific and Ethical Dimensions of Climate Change', Ethics of Climate Change Conference, Blackfriars Hall, Oxford, November 17th, 2007
- 10. Contributor to World Council of Churches, Global Consultation on Genetics and Biotechnology, Johannesberg, December 1st-6th, 2007.
- 11. Keynote address: 'How Can A Theology Of Creation Contribute To Our Understanding Of Sustainability And Care For The Environment?'God In The World: Theological Reflections On Livesimply And Catholic Social Teaching Roehampton University, /CAFOD/PROGRESSIO THEOLOGY Conference Friday 5th September, 2008
- 12. Keynote address, 'Calamity for the Earth: A Theologian's View', Fellowship of St Alban and St Sergius Annual Conference, St Alban's Centre, Colney, August 10th, 2009
- 13. Keynote speaker, 'Stem Cells: Theological Frameworks', Global Consultation on Stem Cell Research in the Service of Life World Council of Churches, Velos Academy for Theological Studies, Greece, 8-12 November 2009.
- 14. 'Human Identity in a Post-Darwinian World: Opportunities and Challenges', Christians in Science Northern Conference on Human Nature, Edinburgh, UK, March 19th, 2011.
- 15. 'Living Sustainably: Climate Change and Roman Catholic Social Teaching', Climate Change and the Common Good Conference, University of Notre Dame, April 8th -10th 2013.

5.4.5 Invited public lectures and external academic seminars (theology)

Academic Seminars

(Note, lectures given to a public audience at Universities listed under public lectures).

- 1. Guest Seminar/Workshop entitled "Biology and Theology in dialogue: Towards and Ecological Ethic", Manchester University, Postgraduate Society, May 1st 1992.
- 2. "Moltmann's Theology of Creation", *Tyndale Society*, Cambridge, July 1-3, 1992. Invited lecture: 'Biotechnology, ecology and wisdom', guest speaker for Ian Ramsey Centre seminar series, Faculty of Theology, Oxford University, October 28th, 1999.
- 3. Manchester University, Contextual Theology Seminar; June 18th, 2004 'To be or not to be? A preliminary analysis of media reporting of stem cell research: a theologian's perspective'.
- 4. Wycliffe Seminars in Science and Religion, Oxford University, 'Living from the Sabbath: An Ecological Theology' July 20th, 2004
- 5. 'Freedom, Conscience and Virtue: Theological Perspectives on the Ethics of Inherited Genetic Modification' McMaster Divinity College, Toronto, Tuesday 16th September, 2008.
- 6. 'Naming Environmental Justice and Ecological Justice as Virtue', McMaster Postgraduate Philosophy Seminar, 16th September, 2008
- 7. Relating Christ and Evolution; Separation, Synthesis or a Stage?, Redeemer University College: Biology Seminar Wednesday 17th September, 2008
- 8. A Response to Calamity: Developing an Ecological Eschatology, Faculty Colloquium, Redeemer University College, Toronto, Wednesday 17th September, 2008
- 9. Feminist Quandaries in Reproductive Technologies and Genetics: A Case for a Virtue Approach. Bioethics Interest Group, McMaster University, 18th September, 2008
- 10. Keynote speaker on "Mapping the evolution of conscience: a theological perspective" for Templeton funded consultation on *Evolution of Conscience*, Santa Fe, New Mexico, USA, April 28th-May 3rd, 2010.
- 11. 'Religious Environmentalism', short paper for Pre-Council Meeting on *Trust and Accountability in Science*, California Council for Science and Technology, Irvine, California, 18th October, 2010.
- 12. 'A Case for Collective Conscience: Climategate, COP-15, and Climate Justice', Center for Catholic Thought and Culture, University of San Diego, 20th October 2010.
- 13. Gene Therapies: Future Prospects and Ethical Quandaries, Seminar for Department of Theology, University of San Diego, 20th October 2010.
- 14. "Deep Incarnation Between Balthasar and Bulgakov: The Form of Beauty and the Wisdom of God', Expert Colloquium on *Is God Incarnate*

- *in All That Is?*, organized by Niels Gregersen, Copenhagen, Denmark, August 25th -28th, 2011.
- 15. 'Creation' for Theology of Climate Change Seminar, Manchester University and Lincoln Institute, Manchester, UK, September 8th-9th, 2011.
- 16. Zygon Center Advanced Seminar, Chicago, 'God, Emergence of Human Freedom and the Animal', April 30th, 2012.
- 17. 'Are Animals Moral'? Lunchtime Seminar, Albertus Magnus Society, Dominican University, Chicago, November 16th, 2012.
- 18. "Re: Imaging the Image of God: Human Nature, Evolution and Other Animals', public lecture for Lutheran School of Theology, São Leopoldo, Brazil. October 21st 2013.

Pedagogical presentations, including ministry formation etc.

- 1. Joint ICOREC presentation to *Manchester Student Union* on "Religions and Ecology", with F.Kahlid (Islam) and R.Prime (Hinduism), December, 1992
- 1. All day seminar for *Continuing Ministerial Education*, Portmouth Diocese 'Theology and Ecology: A New Fad or a New Frontier?', May 26, 1993.
- 2. All day seminar for *Continuing Ministerial Education*, Portmouth Diocese '*Gaia*: A Religious Perversion or a Marriage of True Minds?', June 23rd, 1993.
- 3. Invited lecture on 'The Roman Catholic Church and Environmental Issues', for 'Faith and Culture Committee', *Roman Catholic Bishop's Conference of England and Wales*, Archbishop's House, London, April 1997.
- 4. Guest Lecture for *Justice and Peace Theme Week*, *Northern Baptist College*, Luther King House, Manchester, entitled 'The 'integrity of creation': reflections on Gaia and ethics', 19th September 1997.
- 5. Invited lecture, 'Playing God? Issues in the New Biotechnology', one of events organised as part of *Training and Learning for Ministry*, Diocese of Leicester. Venue: St Catherine's Church, Burbage, October 23rd, 1998.
- 6. Invited lectures, 'Genetic Engineering: The Science and its Applications in the Non-Human World' and 'A New Earth? Ethical Dilemmas Arising from the Genetic Manipulation of Life', *Turvey Abbey*, November 28th, 1998.
- 7. Invited lecture; 'Biotechnology: The Challenge for Science and Theology', Aquinas College, Stockport, March 17th, 1999.
- 8. Invited lecture; Newman Association; 'Creation Through Wisdom: Theology and the New Biology', June 29th, 2001.
- 9. Invited lecture and seminar, 'Brave New World? Wisdom ethics for the new genetics', Methodist Apologist Group, October 13th, 2001
- 10. Invited Science and religion seminar for teachers, University of Cork, 'The earth, wisdom and the new ecology', 23rd March, 2002

- 11. Keynote speaker for all lectures at York Deanery Study Day on 'What the Scientist Should be saying to the Theologian and Vice Versa', 27th February, 2007.
- 12. Key speaker, Summer Seminar Week on *Evolution, Human Nature* and *Theology*, joint with Agustin Fuentes, Postgraduate Fellows, Center of Theological Inquiry, Princeton, June 2-6th 2014

Public Lectures

- 1. Christian Ecology Link, Annual Conference, Guest lecture, November 20-22, 1992.
- 2. St. Deiniol's Library, Hawarden. Guest Lecture for Open Day and Book Launch on 'Theology and Biotechnology: An Introduction', January 31st, 1998
- 3. Public guest lecture: delivered at Gloucester Cathedral, 'Playing God? Environmental and Theological Issues in the New Biotechnology', Lent Lecture Series on Issues in Church and State, March 26th, 1998.
- 4. Guest Seminar:; 'Theology and Biotechnology: Implications for a New Science', Centre for the Study of Theology, Essex University, May 8th, 1998.
- 5. Joint lecture with Dr. Bronislaw Szerszynski entitled 'Genetically Modified Theology: The Religious Dimension of Public Concern over Agricultural Biotechnology', Colloquium on Genetic Engineering: Resources in the Christian Tradition, sponsored by the Christendom Trust, London, January 8th, 2000.
- 6. Invited lecture: 'Genetic Engineering for a New Earth?', Ness Botanic Gardens: Friends of the Gardens Lecture Series, Ness Gardens, March 5th, 2000.
- 7. Invited co-lecture, 'Pros and Cons of Genetically Modified Food: An Open Debate', Royal Society for the Encouragement of Arts, Manufacture and Commerce, Reaseheath College, March 28th, 2000.
- 8. Invited lecture: Leeds university, 'Environmental ethics and the new ecology', January 15th, 2002.
- 9. Invited lecture Honan Lecture Series; University of Cork, 'Wisdom and The New Genetics', 22nd March, 2002,
- 10. Invited lecture, Nottingham Theological Society, 'A Theology of Wisdom for a Biological Age', May/June 2002.
- 11. Invited lecture, Edinburgh University science and religion forum, 'Navigating the maze: biology and animal ethics', February 25th, 2003.
- 12. Invited lecture, series 'Earth, air, fire, water, God', title of lecture: 'Living in the Sabbath: an ecological theology', Newcastle University, 7th March, 2003.
- 13. Invited lecture, Portsmouth University, 'Wisdom, ethics and human genetics', March 19th, 2003.

- 14. Invited lecture 'Fabricated or Fabulous Humans?', Genetics and the Christian Wisdom Tradition', St Mary's University, Halifax, Canada, November 6th, 2003.
- 15. 'Genetic Interventions in Nature: Perspectives from a Christian Ethic of Wisdom', Harris Manchester Lecture, Oxford University, July 22nd, 2004
- 16. 'Ecology , Wisdom and Beauty in Bulgakov, von Balthasar and Aquinas', Holy Wisdom Study day, St Theosevia Centre, Oxford, April 2005.
- 17. Study Day, Sharing God's Planet, St. Paul's Institute for 21st Century Ethics, London, November 24th, 2006.
- 18. Liverpool Hope University, Theological Association, 'Recovering Practical Wisdom as Virtue for an Ethic of Genetics', December 7th, 2006.
- 19. York University Public Lecture for Bioethics Series: Practical Ethics: Life, Law and Environment, 'Seeking Wisdom as Virtue for an Ethics of Genetics', May 25th, 2007.
- 20. Manchester University, Lincoln Institute Public Lecture series, 'Christology and Evolution' February 4th, 2008.
- 21. Key address, 'Creation and sustainability: Genesis, Romans and RCST.'God In The World: Theological Reflections On Livesimply And Catholic Social Teaching Roehampton University, /CAFOD/PROGRESSIO Public Conference, Saturday 6th September, 2008
- 22. Genetic Futures and Our Search for Wisdom, Public Lecture, Fr Maddon Hall, St Michael's College, Toronto, 15th September 2008
- 23. Beyond Separation or Synthesis: Christ and Evolution as Theodrama' Regent's Park College, Oxford Centre for Christianity and Culture February 10th, 2009. Part of lecture series on Darwin and Evolution.
- 24. Beyond Separation or Synthesis: Christ and Evolution as Theodrama, Faraday Institute for Science and Religion, Cambridge University, February 17th, 2009
- 25. 'Christ and Evolution: A Dramatic Interrogation' Science for Ministry Lecture, Princeton Theological Seminary, September 22nd, 2010
- 26. "A Case for Collective Conscience: The Moral Challenge of Climate Change' Raymond Zerby Lecture in Contemporary Religious Thought, Bates College, USA, November 30th, 2011.
- 27. 'Christ and Evolution', Leicester Theological Society, Leicester, UK, January 30th 2012.
- 28. 'Christ and Evolution: A Drama of Wisdom? Boyle Lecture (New Series), St Mary, Bow, London, UK, January 31st, 2012.
- 29. "Reimaging the Image of God", Goshen College Lectures in Science and Religion, March 23rd-25th, 2012.
- 30. Christ and Evolution' and 'Deep Incarnation', Cosmos and Creation Lectures, Loyola College, Maryland, June 8th -10th, 2012.

- 31. Symposiast, Symposium on Spiritual Progress, Philadelphia, October 15th -17th, 2012, organized by Center of Theological Inquiry and sponsored by the John Templeton Foundation in honor of the Centenary of the birth of Sir John Templeton.
- 32. 'Christ and Ecology: Deep Incarnation', Chestnut Hill College, Institute for Religion and Science, October 25th, 2012
- 33. 'Human Uniqueness Reconsidered: Human Evolution and the Image of God.' Albertus Magnus Society Lecture, Dominican University, Chicago, November 15th, 2012.
- 34. William Shannon Chair Public Lecture in Catholic Studies, March 21st, 2013; 'Christ and Evolution as Theodrama'.
- 35. 'Re-Imaging the Image of God: Human Nature, Evolution and Other Animals', William Witherspoon Endowed Lecture, Center of Theological Inquiry, Princeton, May 8th, 2013.

5.4. 6 Popular talks/retreats.

- 1. Reflection weekend, 'Sophia: Seeking Wisdom', series of short talks and meditations entitled 'Wisdom in Iconography', 'Sophiology in Russian Orthodoxy', 'Wisdom in the Old Testament', 'Wisdom in the New Testament' and 'Wisdom as the Divine Feminine'; *Turvey Abbey* community, 19th-21st July, 1996.
- 2. Interview for *Radio 4* program "Something Understood", presented by Peter Hobday, and produced by Beverley McAinsh on "Wisdom and Knowledge", August 1996.
- 3. Short guest sermon and seminar, Lenten Series on Christianity and the Environment, March 7th, 1999, St Mark's Anglican Church, Broomfield, Sheffield.
- 4. Interview for Program entitled 'A Bunch of Genes' for National Australian Radio, presented and directed by Wendy Barnaby, Summer 1999. Other speakers included Professor Stephen Rose and Sir Maurice Wilkins, with extracts from Professor James Watson, Sir Michael Swan and Professor Francis Crick.
- 5. Series of talks on theology/ethics of genetic engineering for the Othena Ecumenical Christian Community, Burton Bradstock, 20th-23rd September, 1999.
- 6. Celebrating the Environment. 'Living in the Sabbath: A Christian Response to the Environment, Liverpool Cathedral June 6th, 2003
- 7. Two lectures on science and religion for Roman Catholic People's Week, Penmaenmawr, August 23rd-26th, 2003.
- 8. Guest sermon, Man Come of Age? Theology in Ecological Perspective.Mansfield College, Oxford, Ecotheology, November 26th, 2003
- 9. Contributor to Dean's Breakfast talks, 'On Wisdom and Prudence', 2003.
- 10. Guest lecture, 'A Banquet for All?', Catholic Earthcare Australia, Sydney, January 20th, 2004.

- 11. 'In the Beginning: Reflections on the Origins of Life', sermon at Nuffield College Oxford, February 2005.
- 12. Catholic People's Week: Dora Turbin Lecture, October 29th, 2005; Finding Wonder, Seeking Wisdom: Reflections at the Boundary of Science and Religion
- 13. Seeking Wisdom and Finding Beauty/Wonder in the Context of Climate Change, Au Sable Institute, USA, July 26th, 2006
- 14. Key speaker, 'Seeking Wisdom and Finding Beauty/Wonder', Bowden Deanery Chapter Meeting: *Environmental Issues*, September 18th, 2006
- 15. Interview for Encounter programme, by Gary Bryson, for Australian Broadcasting Corporation (ABC) for programme on Virtue Ethics, broadcast, October 21st, 2006.
- 16. Lent Talks for series *The Big Issues, What Can the Church Do?,* session on 'Playing God? The promise and threat of biotechnology', Ellesmere Deanery, Shropshire, March 13th, 2007.
- 17. Keynote speaker, Joint conference: Quiet Garden Movement and Centre for Religion and the Biosciences, Waltham Place, *Wisdom for the Earth*, July 7th, 2007as part of *Green Grace* lecture series.
- 18. 'Paradise Lost? Scientific and Religious Perspectives on the Ecological Crisis', BA Festival of Science, City Programme, York University, Tuesday 11th September 2007, One of four panelists.
- 19. 'Sustainability from a Christian Perspective', Day workshop, CAFOD, May 12th, London, Brixton, 2008.
- 20. 'Roman Catholic Social Teaching and Environmental Justice', CAFOD staff training day, November 20th 2008.
- 21. A Recovery of Practical Wisdom as Virtue for an Ethics of Genetics St Albans Diocesan Clergy Study Day, February 7th, 2009
- 22. Two seminar papers on Creation for CAFOD representation at Charismatic Renewal Conference, Ilfracombe, 15th-18th April 2009
- 23. Numerous popular talks, addresses and assisted in one retreat at Launde Abbey for local parish communities and supporters of CAFOD. Themes on environmental justice, theology of creation, Roman Catholic social teaching on environmental issues, human flourishing during secondment with CAFOD, July 2009-July 2010.
- 24. Contribution of interview to film on science and theology, *Closer to Truth*: *Consciousness, Cosmos God*, edited by Robert Kuhn, filmed in Copenhagen in August 2011 and Televised in USA, see http://cope.colostate.edu/1ois/cla/Closer-Science-and-Religion.wmv
- 25. "Factory Farming Through a Different Lens', Contribution to meeting on *Discerning a Catholic Response to Factory Farming* for the Roman Catholic US Bishops Annual Convention, Baltimore, 13th November, 2013. Other panelists John Berkmann, Charlie Camoscy, Mary Eberstadt, Susan Kopp, Christine Gutleben (Humane Society). Eight Bishops attended. Sponsored by the Humane Society of the United States.

5.5 Theological Publications (for science publications, see Appendix)

5.5.1. Books (Academic, Pedagogical and Popular). *Academic*

- 1. Theology and Biotechnology: Implications for a New Science, Geoffrey Chapman, Cassell, November 1997. Also available in the U.S.A with Trinity Press International. Nominated for Templeton Prize for Outstanding Books in Theology and the Natural Sciences.
- 2. Ecology in Jürgen Moltmann's Theology, Edwin Mellen Press, August 1997. Foreword by Professor Richard Bauckham. Also available in the U.S.A. (Academic)
- 3. Creation Through Wisdom: Theology and the New Biology, T. &T. Clark, 2000. (Academic)

Nominated for 2007 Louiseville Grawemeyer Award in Religion

4. ReOrdering Nature: Theology, Society and the New Genetics. Main editor, also contributor to book, with joint editor Bronislaw Szerszynski (Lancaster University) 2003. (Academic)

Selected for Templeton Outstanding Book in Science and Religion, 2004

- 5. Brave New World? Theology, Ethics and the Human Genome Continuum/T & T Clark, 2003. Contributing editor, Sponsored by Richard Hills Trust. (Academic)
- 6. *The Ethics of Nature*.(Oxford: Blackwells), 2004. AHRB Funding received to complete this book (Academic/Pedagogical)

Selected for Templeton Outstanding book in science and religion, 2005

7. Genetics and Christian Ethics, Cambridge University Press, 2006 (Academic)

Selected for the International Society for the Study of Science and Religion Library Collection.

- 8. Future Perfect? God, Medicine and Human Identity Main editor, also contributor, with joint editor Dr Peter Scott, Continuum/T & T Clark International, 2006. St Deiniol's library grant received to complete this book. Second edition as paperback, January 2010. (Academic)
- 9. *Teilhard de Chardin on People and Planet*, contributing editor, London: Equinox, 2006 (Academic)
- 10. Christ and Evolution: Wonder and Wisdom; Fortress Press; SCM Press, 2009, ISBN 978-0-334-04213-6. AHRC funding received to complete this book (Academic)

For reviews see e.g. *Ars Disputandi*, 10 (2010), 63-66; *Scottish Journal of Theology* 65 (4), pp 496-7; http://catholicbooksreview.org/2009/deane.htm.

- 11. Creaturely Theology: God, Humans and Other Animals, edited collection with David Clough. London: SCM Press, 2009. Other contributors: Rachel Muers, Peter Scott, Esther Reed, Michael Northcott, David Cunningham (USA), John Berkman(USA), Christopher Southgate, Denis Edwards (Australia), Neil Messer, Stephen Clark, Aaron Gross (USA) ISBN 978-0-334-04189-4.(Academic)
- 12. Religion and Ecology in the Public Sphere, edited by Celia Deane-Drummond and Heinrich Bedford Strohm, University of Bamberg, Germany. London: Continuum, 2011. (Academic)
- 13. Ed *Animals as Religious Subjects: Transdisciplinary Perspectives.* Main editor, with David Clough and Becky Artinian Kaiser. T & T Clark/Bloomsbury, *in press*, May 2013. (Academic)
- 14. The Wisdom of the Liminal: Human Nature, Evolution and Other Animals. Monograph. (Academic). (Grand Rapids: Eerdmans, 2014), in press.
- 15. Contributing editor, main editor Ernst Conradie, with co-editors, Sigurd Bergmann and Denis Edwards, *Christian Faith and the Earth: Current Paths and Emerging Horizons*. London: T & T Clark/Bloomsbury, 2013/4. (Academic/Pedagogical).

Pedagogical

- 1. Gaia and Green Ethics: Implications of Ecological Theology, Grove Books, Ethical Series, 88, 1993.
- 2. Genetic Engineering for a New Earth? Theology and Ethics of the New Biology, Grove Ethical Series, July 2000
- 3. Biology and Theology Today: Exploring the Boundaries, SCM Press, April 2001.
- 4. Ecotheology, Darton, Longman and Todd, 2008.

In preparation

5. Re-imaging the Image of God, Goshen Lectures, 2012. Pandora Press, 2014.

Popular

- 1. Faith in the Future: Christian Involvement in Shaping Our Society, E. Breuilly, C. Deane-Drummond and M. Palmer, Harper Collins, 1991. (Popular) Published in conjunction with a tape from the BBC Radio 4 Series. "Seeds of Faith".
- 2. A Handbook in Ecology and Theology. SCM Press, April 1996. This book was published with the support of funds from the World Wide Fund for Nature. Also available in U.S.A. (Popular/pedagogical)

In 1998 it was translated into Indonesian

- 3. Wonder and Wisdom: Conversations in Science, Spirituality and Theology, DLT, 2006. John Templeton Foundation Grant received to complete this book. Also published with Templeton Foundation Press (USA) and Novalis (Canada). (Popular/pedagogical)
- 4. Seeds of Hope: Facing the Challenge of Climate Justice, London: CAFOD, November 2009. (Popular).
- 5. Rising to Life, ed. London: CAFOD, February 2011. (Popular)

5.6.2 Contributions to Books

(By invitation where relevant)

Academic

- 1. 'The Logos as Wisdom: A Starting Point for a Sophianic Theology of Creation' in *In Whom We Live and Move and Have Our Being:*Reflections on Panentheism in a Scientific Age', edited by Arthur Peacocke and Philip Clayton, Erdmans, 2004, 233-245.
- 2. 'Where Streams Meet? Ecology, Wisdom and Beauty in Bulgakov, von Balthasar and Aquinas', in *Wisdom or Knowledge?: Science, Theology and Cultural Dynamics*, edited by Hubert Meisinger, Willem B. Drees and Zbigniew Liana, *ESSSAT Proceedings 2004*, Continuum, T & T Clark, 2006, pp. 108-126.
- 3. 'Freedom, Conscience and Virtue: Theological Perspectives on the Ethics of Inherited Genetic Modification' in *Design and Destiny: Jewish and Christian Perspectives on Human Germ line Modification*, Ron Cole-Turner (ed.), MacMillan, 2008, pp. 167-200.
- 4. 'Plumbing the Depths: A Recovery of Natural Law and Natural Wisdom in the Context of Debates about Evolutionary Purpose' in *The Deep Structure of Biology: Is Convergence Sufficiently Ubiquitous to Give a Directional Signal?* S. Conway Morris, ed., Templeton Foundation Press, 2008, pp. 195-217.
- 5. 'Animal ethics: Where do we go from here?' in *Moral Theology for the Twenty-First Century: Essays in Celebration of Kevin Kelly*, edited by Bernard Hoose, Julie Clague and Gerard Mannion, London: Continuum, 2008, pp. 155-163.
- 6. Are Animals Moral? Taking Soundings Through Vice, Virtue, Conscience and *Imago Dei'* in Deane-Drummond and Clough, *Creaturely Theology*, SCM Press, 2009, pp. 190-210.
- 7. 'Introduction' Celia Deane-Drummond and David Clough, in Deane-Drummond and Clough, *Creaturely Theology*, London: SCM Press, 2009, pp. 1-18

- 8. 'Postscript' David Clough and Celia Deane-Drummond, in Deane-Drummond and Clough, *Creaturely Theology*, , London: SCM Press, 2009, pp.266-69
- 9. 'Bodies in Glass: A Virtue Approach to Ethical Quandaries in a Cyborg Age Through a Recovery of Practical Wisdom' in John Eldford and Gareth Jones (eds) *A Glass Darkly; More Discussions in Medicine and Theology,* New International Studies in Applied Ethics, Peter Lang, 2010, pp. 61-80.
- 10. Beyond Humanity's End: An Exploration of a Dramatic versus Narrative Rhetoric and its Ethical Implications.' In *Future Ethics: Climate Change and Apocalyptic Imagination* Ed. Stefan Skrimshire, 2010, Continuum, pp. 242-59.
- 11. Deep Incarnation and Eco-Justice as Theodrama: A Dialogue between Hans urs von Balthasar and Martha Nussbaum' In *Ecological Awareness: Exploring Religion, Ethics and Aesthetics*, edited by S. Bergmann and Heather Eaton, LIT, 2011, pp. 193-206.
- 12. 'Public Theology as Contested Ground: Arguments for Climate Justice', in C.Deane-Drummond and H. Bedford-Strohm, *Religion and Ecology in the Public Sphere* (London: Continuum/T & T Clark, 2011), pp. 189-210.
- 13. 'Introduction' with Heinrich Bedford Strohm, C. Deane-Drummond and H. Bedford-Strohm, *Religion and Ecology in the Public Sphere* (London: Continuum/T & T Clark, 2011), pp. 1-14.
- 14. Trans-human or trans-animal? The theological and ethical implications of transhuman projects', in *Transhumanism and Transcendence: Christian Hope in an Age of Technological Enhancement* edited by Ron Cole-Turner, MIT, 2012, pp. 115-130.
- 15. 'Degrees of Freedom: Humans as Primates in Dialogue with Hans Urs von Balthsar' in *Beyond Human: From Animality to Transhumanism*, eds. Charlie Blake, Claire Molloy and Steven Shakespeare, London: Continuum, 2012, pp. 180-200.
- 16. Lead editor and joint 'Introduction' (co-editors David Clough and Rebecca Artinian-Kaiser), *Animals as Religious Subjects: Transdisciplinary Perspectives*, Continuum, 2013, pp. 1-12.
- 17. "Believing Deeply in Creation: Christ and Evolution as Theodrama', in Hubert Philipp Weber and Rudolf Langthaler, Evolutionshtheorie und Schopfungsglaube: Neue Perspektiven de Debatte (Vienna: Vienna University Press, 2013), pp. 187-200.
- 18. "Discerning Creation in a Scattering World: Questions and Possibilities", in F. Depoortere and J. Haers, eds, *To Discern Creation in a Scattering World* (Leuven: Peeters, 2013), pp. 565-568.

- 19. 'Beyond Separation or Synthesis: Christ and Evolution as Theodrama', in *Darwin in the 21st Century: Nature, Humanity and God,* edited by Phillip R. Sloan, Gerald McKenny, and Kathleen Eggleson, University of Notre Dame Press, 2014, *in press*.
- 20. 'In God's Image and Likeness: From Reason to Revelation in Humans and Other Animals' in, Lieven Boeve, Yves De Maeseneer & Ellen Van Stichel (eds.), Questioning the Human: Perspectives on Theological Anthropology for the 21st Century, Fordham University Press, 2014, in press.
- 21. The Wisdom of Fools: A Theo-dramatic Interpretation of Deep Incarnation', in *Deep Incarnation: Is God Incarnate in All That Is?* Edited by Niels Gregersen, Minneapolis: Fortress, 2014, *in press*.
- 22. Creation', in *Systematic Theology for a Changing Climate*, eds. Peter Scott and Michael Northcott.London: Routledge, 2014, in press.

Pedagogical

- 1. "A Response to Elizabetta Donini's 'Women and a Politics of Diversity: A Perspective of Radical Immanence'", in *Ecofeminism*, eds. Mary Grey and Elizabeth Green, 1994 Yearbook of the European Association of Women in Theological Research, Kok Pharos Publishing, 1994, pp. 70-73.
- 2. "Jürgen Moltmann on Heaven", Chapter 3 in *The Unseen World*, ed. A. Lane, Paternoster Press, 1997, pp. 49-64.
- 3. 'Adult Education with Theological Reflection: A MultiDisciplinary Approach Through Open Learning' in P. Oliver (ed.) *LifeLong and Continuing Education: Towards a Learning Society*, Ashgate, 1999.
- 4. 'Biotechnology: A New Challenge for Theology and Ethics' in C. Southgate, C. Deane-Drummond et. al., *God, Humanity and the Cosmos: A Textbook in Science and Religion*, T and T Clark, 1999, pp. 355-87.
- 5. 'Creation' in *Cambridge Companion to Feminist Theology*, ed. Susan Parsons, Cambridge University Press, 2002, pp. 190-207.
- 6. Contribution to *Dictionary of Contemporary Religion in the Western World*, 'Religion and the Environment', edited by C. Partridge, IVP (Apollus), publication date 2001.
- 7. 'Theology and the Biological Sciences, in *The Modern Theologians*, edited by David Ford and Rachel Muers, 2005,
- 8. 'Theology, Ecology and Values', in P. Clayton (ed) *Oxford Handbook in Science and Religion*, Oxford University Press, 2006, 891-907.
- 9. 'Can There Be a Public Theology of Sustainability? A Response to Mawil Izzi Dien', in *Creation and the Abrahamic Faiths*, ed. N. Spurway, Scholars' Publishing, 2008, 135-42.
- 10. 'The Alpha and the Omega: Reflections on the Origin and Future of Life from the Perspective of Christian Theology and Ethics', in Constance

- M. Bertka, ed., *Exploring the Origin, Extent and Future of Life: Philosophical, Ethical and Theological Perspectives,* Cambridge: Cambridge University Press, 2009, pp. 96-114
- 11. Theology's Intersection with the Science/Religion Dialogue', in Heidi A. Campbell and Heather Looy, eds., *A Science and Religion Primer*, Grand Rapids: Baker Academic, 2009, 28-32.
- 12. 'Whence Comes Religion?', in Neil Spurway, ed., *Theology, Evolution and the Mind*, Cambridge Scholars Publishing, 2009, pp. 42-48
- 13. Entry 'Ecology', for *Cambridge Dictionary of Christian Theology*, eds, David Fergusson Ian McFarland, and Iain Torrance.
- 14. 'Ecology: A Dialogue', in W. Bauman, ed., *Grounding Religion: A Field Guide to the Study of Religion and Ecology*, Routledge, 2010.
- 15. 'Does Sustainable Development Have a Future?' in *Transforming Exclusion: Engaging Faith Perspectives*, edited by Hannah Bacon and Wayne Morris, Continuum/T & T Clark, 2011, pp. 63-75
- 16. 'Chapter 15, 'Biotechnology: A New Challenge for Theology and Ethics', in C. Southgate, ed., 3rd edn, *God, Humanity and the Cosmos* (London: Continuum, 2011), pp. 390-419.
- 17. Chapter 16, 'Climate Change: Engaging Theology with Science and Society', in C. Southgate, ed., 3rd edn, *God, Humanity and the Cosmos* (London: Continuum, 2011), pp. 420-440.
- 18. 'Homo divinis: myth or reality?', in *Darwinism and Natural Theology: Evolving Perspectives,* A. Robinson, ed., Cambridge: Cambridge Scholars Press, 2012.
- 19. The Good, the Bad and the Ugly: Wonder, Awe and Paying Attention to Nature', *Aesth/ethics in Environmental Change*, ed. S. Bermgmann and Irmgaard Blindow. LIT Verlag, 2013, pp. 71-84.
- 20. 'Christ and Evolution: A Drama of Wisdom?', in Russell Re Manning and Michael Byrne, eds., *Science and Religion in the Twenty-First Century: The Boyle Lectures, 2004–2013*, London: SCM Press, 2013, pp. 141-157.
- 21. Technology, ecology and the divine: a critical look at the rising tide of new technologies through a theology of gratuitousness, Contribution to Volume III, Catholic Theological Ethics in the World Church, Just Sustainability, (Maryknoll: Orbis, 2014) in press.
- 22. The Amnesia of Modern Universities: An Argument for Theological Wisdom in the Academe', in Darin Davis, ed., *Educating for Wisdom in the Twenty First Century*, Baylor University Press, 2014, *in press*..
- 23. 'How is Theology Inspired by the Sciences?', in *Conceptions of Truth and the Unity of Knowledge*, ed. Vittorio Hosle and Donald Stelluto, University of Notre Dame Press, 2014, *in press*.

- 24. 'Who on Earth is Jesus Christ? Plumbing the Depths of Deep Incarnation', Chapter for *Christian Faith and the Earth: Current Paths and Emerging Horizons in Ecotheology*, edited by Ernst Conradie, Sigurd Bergmann, Celia Deane-Drummond and Denis Edwards, T & T Clark, Bloomsbury, 2014, pp. 31-50.
- 25. What are the Resources for Building a Christian Ethos in a Time of Ecological Devastation? Chapter for *Christian Faith and the Earth*, edited by Ernst Conradie, Sigurd Bergmann, Celia Deane-Drummond and Denis Edwards, T & T Clark, Bloomsbury, 2014, pp. 157-176
- 26. "Discourse on Faith and the Earth", Ernst Conradie, Sigurd Bergmann, Celia Deane-Drummond and Denis Edwards (Editors introduction) in *Christian Faith and the Earth,* edited by Ernst Conradie, Sigurd Bergmann, Celia Deane-Drummond and Denis Edwards, T & T Clark, Bloomsbury, 2014.

Work in preparation

27. "Re-Making Human Nature: Ted Peters' Contribution to Transhumanism Debates" in *Festschrift in Honor of Professor Ted Peters*, edited by Carol Jacobson and Adam Pryor. Submitted to editors. Title and publisher to be confirmed.

Popular

- 1. "The Ordination of Women Debate", inset text for Hutchinson Gallup *Info '94,* Helicon, p. 181, 1994.
- 2. "Science and Religion: Enemies or Partners?", inset text for Huchinson Gallup *Info* '94, Helicon, p. 195, 1994.
- 3. Entry, 'Biotechnology and Theology', for *Encyclopedia of Science, Religion and Society; History, Culture and Controversy*, edited by Eisen and Lederman, Sharpe, 2006.
- 4. 'Environmental Ethics' for *Christianity: The Complete Guide*, edited by John Bowden, SCM Press, 2005.

5.6.3 Articles.

Academic

- **1.** "Response to Michael Northcott: Is There a Green Christian Ethic?", *Studies in Christian Ethics*, 7 (4), 1994, 46-51.
- 2. "Genetic Engineering *for* the Environment: Ethical Implications of the Biotechnology Revolution", *The Heythrop Journal*, 36 (3), 1995, pp. 307-327.
- 3. "Gaia as Science Made Myth: Implications for Environmental Ethics", Studies in Christian Ethics, 9 (2), 1996, pp. 1-15.

- 4. "FutureNatural? The Future of Science Through the Lens of Wisdom", *The Heythrop Journal*, 40 (1), 1999, pp. 41-59.
- 5. Come to the Banquet: Seeking Wisdom in a Genetically Engineered Earth', *EcoTheology*, 2000, 27-37.
- 6. 'Wisdom: A Voice for Theology at the Boundary with Science', *EcoTheology*, 9, 2001, 27-37.
- 7. 'Celia Deane-Drummond, Robin Grove-White and Dr Bronislaw Szerszynski, 'Genetically Modified Theology: The Religious Dimensions of Public Attitudes to Agricultural Biotechnology', *Studies in Christian Ethics*, 14 (2), 2001, 23-41.
- 8. 'Wisdom, Justice and Environmental Decision Making in a Biotechnological Age', *Ecotheology*, 8.2 (2003),173-192
- 9. Editorial, *Ecotheology* 8 (2), 2003, 133-6.
- **10.** 'Living from the Sabbath: Developing an Ecological Theology in the Context of Biodiversity', in Denis Edwards and Mark Worthing (eds), *Biodiversity and Ecology as Interdisciplinary Challenge*, Adelaide, ATF Press, *Interface* 7 (1), May 2004,pp. 1-13.
- 11. 'Genetic Interventions in Nature: Perspectives from a Christian Ethic of Wisdom', in Denis Edwards and Mark Worthing (eds), *Biodiversity and Ecology as Interdisciplinary Challenge*, Adelaide, ATF Press, *Interface* 7 (1), May 2004, pp. 30-44
- 12. Editorial, *Ecotheology*, 9(1) 2004, 3-6.
- 13. 'Sophia, Mary and the Eternal Feminine in Pierre Teilhard de Chardin and Sergei Bulgakov, *Ecotheology*, 10 (2) 2005, 215-231.
- 14. Editorial *Ecotheology* 10.1 (2005) 7-10 (Letter pp. 5-6).
- 15. Editorial Ecotheology 10.2 (2005), 141-6.
- 16. Editorial *Ecotheology* 10.3 (2005) 277-80.
- 17. Editorial, *Ecotheology*, 11 (1) 2006, 5-8.
- 18. 'Environmental Justice and the Economy: A Christian Theologian's View', *Ecotheology*, 11 (3), 2006, 294-310
- 19. "Plumbing the Depths: A Recovery of Natural Law and Natural Wisdom in the Context of Debates about Evolutionary Purpose", *Zygon*, 42 (4) 2007, 981-998.
- 20. 'Shadow Sophia in Christological Perspective: The Evolution of Sin and the Redemption of Nature', *Theology and Science*, 6 (1) 2008, 13-32.
- 21. Shadow Sophia in Christological Perspective': A Reply to Responses', *Theology and Science*, 6 (1), 2008, 61-72.
- 22. Response to James A. Nash "The Bible vs Biodiversity: The Case against Moral Argument from Scripture", *Journal for the Study of Religion, Nature and Culture*, 3.2 (2009) 271-278
- 23. 'Are Animals Moral? A theological appraisal of the evolution of vice and virtue', *Zygon*, 44 (4) 2009, 932-951

- 24. 'The Breadth of Glory: A Trinitarian Eschatology for the Earth through Critical Engagement with Hans Urs von Balthasar', *International Journal of Systematic Theology*, 12 (1) 2010, pp. 46-64.
- 25. 'A Case for Collective Conscience: Climategate, COP-15, and Climate Justice', *Studies in Christian Ethics*, 24 (1) 2011, pp. 1-18.
- 26. The Ethics of Assisted Dying: A Case for a Recovery of the Prudence among the Virtues', *Studies in Christian Ethics*, 24 (4) 2011, pp. 1-14.
- 27. 'Joining in the Dance: Ecology in Roman Catholic Social Teaching', *New Blackfriars*, 93 (1044) 2012, pp. 193-212.
- 28. Joint with Paul Wason, 'Becoming Human in Theistic Perspective', *Zygon*, 47 (4), 2012, pp. 870-874. {Took editorial responsibility for five articles published in this issue, as well as others emerging from the colloquium published in December 2012, March 2013 and June 2013 issues of *Zygon*}.
- 29. 'In God's Image and Likeness in Humans and Other Animals: Performative Soul-Making and Graced Nature', *Zygon*, 47 (4), 2012, pp. 934-948
- 30. Celia Deane-Drummond and Agustin Fuentes, "Human Being and Becoming: Situating Theological Anthropology in Interspecies Relationships in an Evolutionary Context", *Philosophy, Theology and the Sciences, in press*, 2014.

Work in Preparation

Journal editor, *Philosophy, Theology and the Sciences*, Mohr Siebeck, Special Issue in *Human Nature and Evolution*, publication date, October 2014.

Work in preparation

Following successful panel presentation at SCE, John Berkman, Regis College, Toronto, Charles Camosy, Fordham University and Celia Deane-Drummond are developing a special issue of *The Journal of Moral Theology* dedicated to Roman Catholic Responses to Non-Human Animals, due for publication in June 2014. Working title for own contribution to this volume; "Is 'human nature' also 'speciesist'? Evolutionary perspectives on *H.sapiens* and other hominids". This work is likely to be on the academic/pedagogical boundary.

Pedagogical

- **1.** Moltmann's Ecological Theology: A Manifesto for the Greens?", *Theology in Green*, 1, 1992, 21-27.
- 2. "God and Gaia: Myth or Reality?", *Theology*, July/August 1992, 275-283.
- 3. "The Green Theological Temperature: A Survey of Theological College Education in the UK", *Theology in Green*, 2, 1992, 22-26.

- 4. "A Critique of Jürgen Moltmann's Green Theology", *New Blackfriars*, 73, 1992, 554-565.
- 5. "Recalling the Dream: Celtic Spirituality and Ecological Consciousness", *Theology in Green*, 7, July 1993, 32-38.
- 6. "Biology and Theology in Conversation: Reflections on Ecological Theology", New Blackfriars, October 1993, 465-473.
- 7. "Reshaping Our Environment: Implications of the New Biotechnology", *Theology in Green*, 5 (1), 1995, 19-33.
- 8. "Development *and* Environment in Dialogue with Liberation Theology", *New Blackfriars*, 78, 1997, pp. 279-289.
- 9. "Sophia: The Feminine Face of God as a Metaphor for an EcoTheology", *Feminist Theology*, 16, 1997, pp. 11-31.
- 10. A New Dawn? The Roman Catholic Church and Environmental Issues", *New Blackfriars*, 78, 1997, pp. 316-26.
- 11. Celia Deane-Drummond and Hilary Ineson, 'Theological Reflection', *Adults Learning*, 9 (6), 1998, pp. 20-22.
- 12. 'Theology and the Culture of the Sciences', *New Blackfriars*, 81 (947), January 2000, pp. 36-46
- 13. Genes, Clones and God: Theology, Ethics and the New Genetic Technologies', Review article, edited by Professor David Bartholomew, *Science and Religion Forum Reviews* 35, 2000, 6-11
- 14. Fabricated Humans? Human Genetics, Ethics and the Christian Wisdom Tradition', *Dialog*, 44(4) 2006, 365-74.
- 15. 'Finding Wonder, Seeking Wisdom: Reflections at the Boundary of Science and Religion', *Modern Believing*, 47 (4) October 2006, 17-28.
- 16. 'Wisdom remembered: recovering a theological vision of wisdom for the academe', special issue of *London Review of Education*, edited by Professor Ronald Barnett and Nicholas Maxwell, July 2007. Also published in book format as *Wisdom in the University* (Routledge, 2008).
- 17. 'Wonder and Wisdom' Editorial Zygon, 2008
- 18. 'Ecological Conversion in a Changing Climate: An Ecumenical Perspective on Ecological Solidarity', *International Journal of Orthodox Theology*, 3 (1), 2012, 78-104.
- 19. 'Christ and Evolution: A Drama of Wisdom?', BOYLE lecture (New Series) *Zygon*, 47 (3), 2012, pp. 524-541.
- 20. Joint with Barbara Rossing, 'The Eco-theological Significance of John 10.10: Abundant Life Through the Sabbath, Trinitarian Vestiges and the Tree of Life', *The Ecumenical Review*, 65 (1) 2013, pp. 83-97.

Popular

- 1. "The Next Revolutionary Prophet: A Mohammed, a Marx or a Microbiologist?", *Life and Religions*, Winter 1997, 1 (2), pp. 16-21
- 2. The Search for the Holy Grail', SPLICE, 5 (1), 1998, pp. 10-11

- 3. Christianity and the Environment', *The New Theologian*, 8 (2) March 1998, pp. 38-44.
- 4. 'Biotechnology: A New Challenge for Science and Religion', *The New Theologian*, 9 (1) Autumn 1998, pp. 6-13.
- 5. 'Genetic Engineering: Foe or Friend' in *God for21st century*, ed. Russell Stannard, 2000, Templeton Foundation Press, p. 89-91.
- 6. 'Biotechnology, Ecology and Wisdom', *Priests and People*, 13 (10), October 1999, pp. 364-8.
- 7. 'Trade Costing the Earth' in *Turn the Tables:Reflections on Faith and Trade*. Edited by Linda Jones and Rebecca Dudley, CAFOD/DLT, 2003, pp.34-37.
- 8. 'The Dawn of the Clone Age? Priests and People, July 2003
- 9. Reflections and prayers on Missal readings for Second week of Lent in *The CAFOD/DLT Lent Book 2004, Small World*, DLT, 2004, pp. 24-37.
- 10. 'The Dawn of the Clone Age: Where Might Wisdom Be Found'? In *Spiritual Information:100 Perspectives on Science and Religion*, edited by Charles Harper, Philadelphia:Templeton Foundation Press, 2005, pp. 524-8.
- 11. 'Mystery of the Cross'. *Steps to Easter series*, *The Tablet*, 25th March, 2006, p. 15.
- 12. 'A Recovery of Wisdom as Virtue for an Ethics of Genetics' Perspectives on Science and Christian Faith, 2007. Proceedings of the American Academy of Science Conference, 2006.
- 13. 'A Call for Transformation: Tracing the Theological Roots of Living Sustainably', in *Live Simply Anthology*, ed. Annabel Shilston-Thomas, Canterbury Press, 2008.
- 14. 'Environmental Justice: Expanding the Catholic Tradtion, *Shap Journal*, September 2008 issue.
- 15. 'Rowans' Call to Awareness', 14th October, 2009, *The Guardian*, http://www.guardian.co.uk/commentisfree/belief/2009/oct/14/rowanenvironment-religion.
- 16. Joint article, 'Religion in Evolutionary Perspective: Adaptive Faith', Celia Deane-Drummond, Dominic Johnson, Jan-Olav Henriksen, Jeffrey Schloss, Aku Visala, Richard Sosis, Eugene Rogers, Robert Song and Conor Cunningham, *The Christian Century*, February 29th, 2013, pp. 34-49.
- 17. What is Creation For?' in *A Faith Encompassing All Creation*, ed. Tripp York and Andy Alexis-Baker, Cascade Books, Wipf and Stock, 2013, *in press*.
- 18. Joint article for ETVOL 'Darwin Day: Evolving Perspectives on God', posted on 12th February 2013. Authors Dominic Johnson, Celia Deane-Drummond, Agustin Fuentes, Lee Cronk, Hillary Lenfesty, Jeff Schloss, Richard Sosis. See http://www.thisviewoflife.com/; actual article can be found here,

http://www.thisviewoflife.com/index.php/magazine/articles/darwin-day-evolving-perspectives-on-god

- 19. 'Faith Meets Physics', Review of 'Testing Scripture: A Scientist Explores the Bible' by John Polkinghorne, *The Living Church*, February 17th 2013, p. 18.
- 20. Celia Deane-Drummond, Dominic Johnson, Robin Lovin and Agustin Fuentes, 'What scientists and theologians talk about: Highly evolved questions', *Christian Century*, August 7th 2013, pp. 30-33.
- 21. Celia Deane-Drummond, "Choices Can Make All the Difference" *Catholic Times*, 27th October, 2013.

5.6.5 Book Reviews

Over 40 entries of theological terms and two short review articles on 'Science and Religion' and 'Women in the Church', for the *Dictionary of Religious Ideas*, Helicon, 1994, by invitation. I have published over 150 book reviews between 1992 and 2013 in the following journals: *The Tablet; The Heythrop Journal; Science and Christian Belief; The Expository Times; Modern Believing; Theology; Contact; Third Way; Crucible; Ecotheology; Interdisciplinary Science Reviews; Feedtheminds; The Times Higher Educational Supplement; Theology and Science; Studies in Christian Ethics:*

5.6.6. Editorial work

Reviews Editor for the journal *Theology in GreenlEcotheology* from 1994-1999. Editor, Professor Mary Grey. (As from June 1996 renamed *EcoTheology*).

Editorial Boards

- 1. Editorial board for the *British Journal of Theological Education*, edited by Donald Macaskill and Zoe Bennett Moore until 2009.
- 2. Editorial board for international journal *Theology and Science* from first issue to present
- 3. Editorial board, *Zygon*, from October 2013.
- 4. Editorial board for the book series *New International Studies in Applied Ethics*, edited by John Elford and Simon Robinson, published with Peter Lang.
- 5. Editorial board for new book series published with T & T Clark/Bloomsbury Press, *Religion and the University*. Other members of the board are: Professor William Abraham, Dr Mervyn Davies, Professor Gavin D'Costa, & Professor Peter Hampson. Aim of series is the interdisciplinary relationship of theology/philosophy to the various disciplines within the university, and the idea of a Christian university.
- 6. Editorial work on an *ad hoc* basis for the journals, *Environmental Values, Rural Theology* and *Worldviews*
- 7. Advisory board, Science and Religion in Schools Project, directed by Professor John Hedley Brooke.

Editor.

From March 2001- 2006, **Editor** of the international journal *Ecotheology*. In June 2003 this journal was renamed, *Ecotheology: The Journal of Religion, Nature and the Environment*, and went up to three issues a year, increasing to four issues a year in 2006. It then changed publishers to Equinox Publishers from Continuum.

From 2007 **Consulting editor** for JSRNC, which replaced *Ecotheology* journal. Editor in Chief is Professor Bron Taylor, University of Florida, *Journal for the Study of Religion, Nature and Culture.*

Re-Visioning Ethics New Book Series: Editor in chief 2009-2011. Ethics is understood in a broad sense to include areas of systematics relevant to ethical discourse, focusing particularly on other animals and environmental concerns. Editorial Board: Lisa Cahill (USA) Amy Laura Hall (USA) Denis Edwards (Australia) Peter Scott (UK), Ernst Conradie (South Africa). Book series was discontinued in 2011 following problems with publisher relating to cost of books due to new print on demand policy and relocation of editor to USA.

Philosophy, Theology and the Sciences. One of four international editors invited to develop this new international academic journal to be published by Mohr Siebeck. Other editors invited: Niels Gregersen (Denmark); Dirk Evers (Tübingen, Germany), Greg Peterson (USA). First issue to be published in 2014.

Consultancy

- 1. Critical reader. I have been asked to be the critical reader and comment on a number of books or proposals submitted for publication for the following publishers:
- SPCK; Cambridge University Press (UK and USA based); Oxford University Press (UK and USA based); SCM Press; Equinox, Routledge, Continuum, Harvard University Press.
- 2. **Endorsements.** I have been invited to endorse a number of books, including, for example, Antje Jackelen, *Time and Eternity* (2005), Mikael Stenmark, *How to Relate Science and Religion* (2004) and Bryant and Searle, *Life in Our Hands* (2004) Norman Wirzba *Food and Faith: A Theology of Eating* (2011), Cynthia Crysdale and Neil Ormerod, *Creator God, Evolving World* (2013); Kenneth A. Reynhout *Interdisciplinary Interpretation: Paul Ricoeur and the Hermeneutics of Theology and Science* (2013); Martin Nowak and Sarah Coakley, *Evolution, Games and God: The Principle of Cooperation* (2013), Neil Messer, *Flourishing: Health, Disease and Bioethics in Theological Perspective* (Grand Rapids: Eerdmans, 2013); Nicola Hoggard Creegan, *Animal Suffering and the Problem of Evil* (Oxford: Oxford University Press, 2013).
- 3. Consultation workshop following Reckitt Lecture on 'Forgetting the Land', relating social science research, ecology, spirituality, by Professor John Rodwell (Lancaster University) at the College of the Resurrection, Mirfield, September 7th, 2006.

- 4. Advisor for *Science and Religion Primer* book project, edited by Heidi Campbell and Heather Looy to be published with Baker Academic.
- 5. Consultant and advisor for proposed 'Battle for the Truth: The Purpose and Meaning of Life', a series of multimedia productions from Kharis Productions directed by Iain Morris. Filming for new programme on September 16th, 2009.
- 6. External evaluator for a number of Grant Applications submitted to the following; Leverhulme Trust, John Templeton Foundation, Wellcome Trust, Arts and Humanities Research Council.
- 7. Advisory panel for 'Green Gospel' working party, organized by Martin Palmer
- 8. Theological Reference Group for CAFOD (Catholic Fund for Overseas Development) from 2004-present. I took leadership role from 2009-2010 during my secondment with CAFOD. From 2011 involvement more limited.
- 9. Consultant for planning meeting for World Council of Churches Consultation on Stem Cell Research, Geneva, November 30th- December 2nd 2008
- 10. United Nations Summit, Copenhagen, Theological Accompanier with CAFOD as NGO representation, December 9th -14th 2009.
- 11. Consultancy with California Council for Science and Technology, on *Trust and Accountability in Science*, Pre-Board meeting and Board meeting, October 18-19th 2010; also October 13th-14th 2011.

Appendix: Scientific Academic Profile and Research Publications. Note: teaching responsibilities focused on undergraduate plant physiology courses at Cambridge University (Demonstrator) and Durham University. Details not listed here.

- 1 External activities
- 1.1 Papers invited at symposia and conferences (science)
- 1. Canadian Society of Plant Physiology, Victoria, Feb 1981. 'Nitrate uptake in plants.'
- 2. American Society of Plant Physiology, Quebec, June 1982. 'The use of chlorate as an analogue for nitrate in Barley plants.'
- 3. International Conference on Memrane Regulation in Plants, Prague, August, 1983. 'The regulation of nitrate influx, pump and leak or $N0_3^-$ / $N0_3^-$ exchange?' (Poster paper).
- 4. Ibid, Prague, August 1983. 'The regulation of ammonium influx using methylamine.' (Poster paper).
- 5. International Symposium on Nitrate Nutrition in Plants, University of Gronigen, April 1985. 'A new model for the regulation of nitrate uptake in plants through a substrate cycling mechanism.'
- 6. Society for Experimental Biology, Southampton, Jan 1986. 'Sulphate regulation in pea plants'.

1.2 Invited lectures (science)

- 1. 1984 **Biological Society**, Lancaster University. 'A model for the regulation of nitrate uptake' April,1984
- 2. 1985. **Society for Chemistry in Industry**. ICI, Billingham. 'lon regulation in barley and pea plants.' June, 1985.
- 3. 1985. **Rothamsted ARC Research Station**. 'The control of nitrate, chloride and sulphate uptake in barley seedlings.' Nov, 1985.

1.3 Consultancy and collaboration with other scientific research groups

1984 Baltic Sea Environmental Research Laboratories, Sweden.

1982 Professors JR Thayer and R Huffaker, *Microbiology Department*, University of California, Davis.

1985 Professor E Jacobsen, *Genetics Department*, University of Gronigen.

1986 Professor W.Cram, *Botany Department*, Newcastle University, UK.

2. Scientific Publications.

All publications were in refereed journals unless otherwise stated.

The following were written from research at *Reading University and Letcombe Agricultural Research Station (Oxford):*

- 1. Deane-Drummond, C.E., Clarkson, D.T. and Johnson, C B. The effect of shoot removal and malate on the activity of nitrate reductase assayed in vivo in barley roots (*Hordeum vulgare* cv Midas). *Plant Physiology* 64, 660-662 (1979)
- 2. Deane-Drummond, C E, Clarkson, D T. Nitrate reduction in barley roots. *Letcombe laboratory Annual Report* (1979) (not refereed)
- 3. Deane-Drummond,C E, Clarkson,D T, and Johnson C B. Adaptation of nitrate reductase in barley roots to environmental temperature. *Letcombe Laboratory Annual Report*, 51 (1980) (not refereed)
- 4. Deane-Drummond, C E, Clarkson, D T and Johnson, C B. The effect of differential root and shoot temperature on the nitrate reductase activity assayed *in vivo* and *in vitro* in roots of *Hordeum vulgare* (barley). Relationship with diurnal changes in malate and sugar. *Planta* 148, 455-461 (1981)
- 5. Deane-Drummond, C E, and Johnson, C B. Absence of nitrate reductase activity in San 9789 bleached leaves of barley seedlings (*Hordeum vulgare* Midas). *Plant, Cell and Environment* 3, 303-308 (1980)
- 6. Deane-Drummond, C E, Nitrate reduction in barley plants. PhD Thesis, University of Reading (1980)

7. Clarkson,D T and Deane-Drummond,C E. Thermal adaptation of nitrate transport and assimilation in roots? in *Nitrogen as an Ecological Factor*. The 22nd Symposium of the British Ecological Society, Oxford, 1981. Edited by J A Lee, S McNeill and I H Rorison. Blackwell pp. 211-224 (1983)

The following were written from research at the *University of British Columbia, Vancouver, Canada:*

- 8. Deane-Drummond, C E. Rapid Method for the preparation of ³⁶ClO₃⁻ from ³⁶Cl⁻ by electrolysis. *International Journal of Applied Radiation and Isotopes* 32, 758-759 (1981)
- 9. Deane-Drummond, C E. Mechanism for nitrate uptake into barley (*Hordeum vulgare* cv. Fergus) seedlings grown at controlled nitrate concentrations in the nutrient medium. *Plant Science Letters* 24, 79-89 (1982)
- 10.Deane-Drummond, C E and Glass, A D M. Mechanisms for Nitrate Uptake into barley seedlings (*Hordeum vulgare*); use of ³⁶ClO₃⁻ as an analogue for NO₃⁻. *Plant Physiology* 67 S 131 (1981)
- 11.Deane-Drummond, C E and Glass, A D M. Nitrate uptake into barley (*Hordeum vulgare*) plants. A new approach using ³⁶ClO₃ as an analogue for NO₃. *Plant Physiology* 70, 50-54 (1982)
- 12.Deane-Drummond, C E and Glass, A D M. Studies of nitrate influx into barley roots by the use of $^{36}\text{ClO}_3^-$ as a tracer for nitrate. Interactions with chloride and other ions. *Canadian Journal of Botany* 60,2147-2153 (1982)
- 13.Deane-Drummond, C E and Glass A D M. Short term studies of nitrate uptake into barley plants(*Hordeum vulgare*) L cv Betzes) using ion specific electrodes and ³⁶ClO₃⁻I. Control of net uptake by NO₃⁻ efflux. *Plant Physiology* 7, 100-104 (1983)
- 14.Deane-Drummond C E and Glass,A D M. Short term studies of nitrate uptake into barley plants (*Hordeum vulgare*) L cv Betzes) using ion-specific electrodes and ³⁶ClO₃-. 2. Regulation of NO₃- efflux by NH₄+ *Plant Physiology* 73, 105-110 (1983)
- 15. Glass A D M, Siddiqi, Y M and Deane-Drummond, C E . A multichannel micro-computer-based system for continuously measuring and recording ion activities of uptake solutions during ion absorption by roots of intact plants. *Plant, Cell and Environment* 6, 247-254 (1983)
- 16. Deane-Drummond, C E and Glass, A D M . Compensatory changes in ion uptake in barley seedlings in response to differential root/shoot growth temperature. *Journal of Experimental Botany* 34, 1711-1719 (1983)
- 17. Deane-Drummond, C E . Mechanism of NO3- uptake into barley (*Hordeum vulgare*) :pump and leak or N0₃⁻ / N0₃⁻ exchange? pp 390-391 in *Membrane Transport in Plants*. eds WJ Cram, K Janacek, R Rybova, K Sigler, Academic Press, Praha(1984)

- 18. Deane-Drummond, C E Mechanism for NH_4^+/NO_3^- interaction during NO_3^- uptake by barley (*Hordeum vulgare*) plants: stimultaion of NO_3^- efflux by NH_4^+ pp 392-393 in op. cit. *Membrane Transport in Plants* (1984)
- 19. Deane-Drummond, C E and Thayer, JR. Nitrate transport characteristics in *Hordeum vulgare* L seedlings using three different tracer techniques. *Journal of Experimental Botany* 37, 429-439 (1986).

The following were written from research at *Cambridge University*:

- 20. Deane-Drummond, C E . Mechanism of nitrate uptake into *Chara corallina* cells. Lack of evidence for obligatory coupling to proton pump and a new N0₃⁻ / N0₃⁻ exchange model. *Plant Cell and Environment* 7,317-323 (1984)
- 21. Deane-Drummond, C E . The apparent induction of nitrate uptake by *Chara corallina* cells following pretreatment with or without nitrate and chlorate. *Journal of Experimental Botany* 35, 1182-1193 (1984)
- 22. Deane-Drummond, C E . Nitrate transport into *Chara corallina* cells using $^{36}\text{CIO}_3^-$ as an analogue for NO_3^- . I. Interaction between $^{36}\text{CIO}_3^-$ and NO_3^- and characterization of $^{36}\text{CIO}_3^-$ / NO_3^- influx. *Journal of Experimental Botany* 35, 1289 -1299 (1984)
- 23.Deane-Drummond, C E. Nitrate transport into *Chara corallina* cells using $^{36}\text{CIO}_3^-$ as an analogue for N0_3^- 2. Comparison with ^{14}C Methylamine fluxes at different pH₀ and NH_4^+ / N0_3^- interactions. *Journal of Exerimental Botany* 35 ,1299 -1308 (1984)
- 24.Deane-Drummond, C E. Nitrate transport into *Chara corallina* cells using ³⁶ClO₃⁻ as an analogue for NO₃⁻ 3. Interaction between chloride and nitrate transport processes. *Journal of Experimental Botany* 35,1733 -1743 (1984)
- 25. Deane-Drummond, C E . Regulation of nitrate uptake into *Chara corallina* cells via NH₄ ⁺ stimulation of N0₃ ⁻ efflux. *Plant Cell and Environment* 8, 105 -110 (1985)

The following were written from research at *Durham University:*

- 26.Deane-Drummond,C E & Chaffey,N J. Characteristics of nitrate uptake into seedlings of pea (*Pisum sativum* L. var Feltham First) I. Changes in net uptake following inoculation with Rhizobium and growth in low nitrate concentrations. *Plant Cell and Environment* 8, 517 -523 (1985).
- 27.Deane-Drummond, CE and Jacobsen, E. Characteristics of ³⁶ClO₃-/³⁶Cl⁻ -influx into nitrate deficient mutant E1 *Pisum sativum* seedlings. Evidence for restricted induction by nitrate compared with wildtype. *Plant Science* 46,169-173 (1986)
- 28.Deane-Drummond, C E. A substrate cycling model for nitrate uptake by *Pisum sativum* L. seedlings a key to sensitivity of response of net flux to substrate and effectors? *Plant and Soil* 91, 307 -311 (1986)

- 29..Deane-Drummond, C E. Nitrate uptake into Pisum sativum L. c.v Feltham First seedlings; commonality with nitrate uptake into *Chara corallina* and *Hordeum vulgare* through a substrate cycling model. *Plant, Cell and Environment*, 9, 41 -48 (1986)
- 30. Deane-Drummond, C E. Short communication A comparison of regulatory effects on chloride on nitrate uptake, and nitrate on chloride uptake into *Pisum sativum* L. cv Feltham First Seedlings. *Physiologia Plantarum*, 66, 115 121 (1986)
- 31. Deane-Drummond, CE. Some regulatory aspects of ¹⁴C Methylamine influx into *Pisum sativum* L Feltham First seedlings. *Planta*, 169,8 8-15 (1986)
- 32*. Deane-Drummond, C E. Review; Biochemical and physiological aspects of nitrate uptake and its regulation; in *Nitrogen in Agricultural Science*. Eds Prof Abrol, Nark Associated Publishing Co, New Delhi, India (1986) *By invitation.
- 33. Deane-Drummond, C E and P.G. Gates, A novel technique for the investigation of anion transport in cells and tissues using a fluorescent probe. *Plant Cell and Environment*, 10, 221 -227 (1987)
- 34. Deane-Drummond, C E. The regulation of sulphate uptake following growth of *Pisum sativum* L.seedlings in S nutrient limiting conditions. Interaction between nitrate and sulphate transport. *Plant Science* 50, 27-35 (1987)