

IVF Histories and Cultures Seminar 2

11th-12th December 2014

Christ's College Cambridge



Thursday 11th December 2014

12:00 – 12:45pm Buffet Lunch

12:45 – 1:30pm Short Introductions

**1:30 – 3:00pm Documentary on the birth of
Louise Brown**

Introduction by Peter Williams
(documentary producer),
Chair: Katie Dow

3:00 – 3:30pm Tea

3:30-5:00pm The Oldham Period

Reflections from Grace MacDonald,
John and Noni Fallows, John Webster
and Chair: Kay Elder

5:30 – 7:00pm Public Lecture

Martin Johnson and Kay Elder, Chair:
Sarah Franklin

7:00pm /7:45pm Drinks reception/Private Dinner

Friday 12th December 2014

9:00 - 10:30am Reflections on the Public Lecture

Peter Braude, Virginia Papaioannou,
Duncan Wilson and Anna Mastroianni,
Chair: Nick Hopwood

10:30 -11:00am Tea

11:00 -12:30pm The Impact of the Oldham Period on The Bourn Hall Period

Reflections from Mike Macnamee,
Judy Boothroyd, Lucy Raby, Simon
Fishel, Chair: Erica Haines

12:30 – 2:00pm Lunch

2:00 - 4:00pm After IVF

Reflections on the proceedings from
Jeanette Edwards, Emily Jackson,
Clare Williams, Ginny Bolton and Carol
Readhead, Chair: Sarah Franklin.

4:00 - 5:00pm Closing comments

Welcome!

It is our pleasure to share this event with all our invited participants here in Cambridge. Having travelled from near and far to be part of our programme, we hope you will find everything you need here in Christ's during your stay and that you will benefit from your participation in this event.

Our workshop is the second in a series of three funded by the Economic and Social Research Council, the British Academy, the Wellcome Trust and the University of Cambridge. Our first workshop, which was held last June, looked back at the scientific development of IVF and its legacies from an interdisciplinary perspective. Stimulated by some of the materials in the personal archives of Robert Edwards, we looked both forward and back -- at what IVF was 'made of' in both social and biological terms, and at the implications of now being 'after IVF'. We asked: 'What did Robert Edwards see when he looked at an embryo', and the answers continued to surprise us as we moved from 'what' he saw to 'how' he saw and as we examined many of the images he would have looked at himself in the 1960s, 1970s and 1980s.

In this second workshop we are focussing in more depth on two key periods and two key sites in the development of IVF: the period from the mid-1960s to 1978 when IVF was developed at Oldham, and the early 1980s when Edwards and Steptoe moved to Bourn Hall. We are extremely fortunate so many of you who were active in these periods, and at these sites, can join us, and we look forward to hearing your reflections, memories and thoughts about these times and places, which have had a lasting effect not only in terms of modern IVF technology but how we think about reproduction and fertility.

We are also fortunate to have with us the filmmaker Peter Williams, who will lead our opening discussion of 'early IVF', and a number of early IVF patients and practitioners. We also have with us several leading academics specialising in the study of assisted conception, who will draw on their expertise in social science, bioethics, history, law and the visual arts.

Finally, we are pleased to welcome some of the most influential scientists and clinicians whose work combined basic scientific research with public outreach and engagement in the process of determining how IVF would be practiced and regulated in the UK.

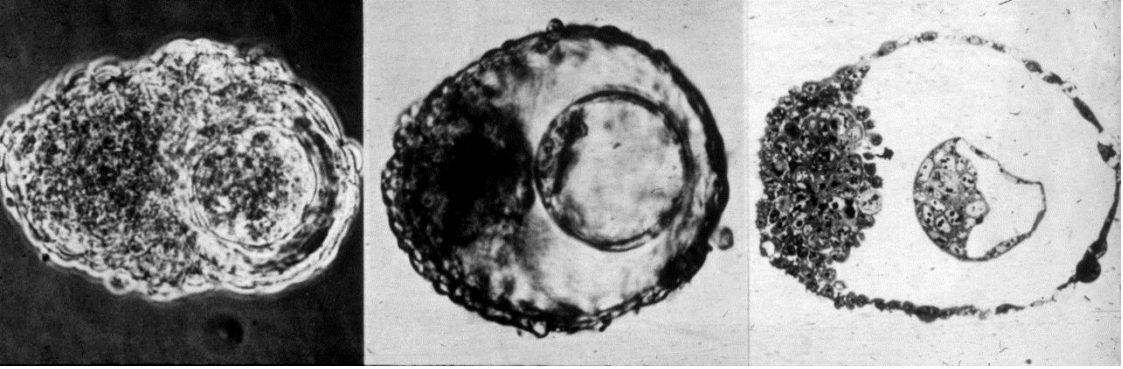
The lecture that is the centrepiece of our gathering, to be delivered by Martin Johnson and Kay Edwards, draws on newly discovered sources of information about the Oldham period that will inform the second day of our workshop. We are very grateful to Kay and Martin for the privilege of hearing them speak about their work at a pre-publication stage, and to have online access to drafts of their articles.

As all of you will know, Rhiannon Williams has been the mover and the shaker behind the organisation of this event, and we are doubly grateful for her creativity in designing our poster and programme and her thoroughness in ensuring no logistical stone has been left unturned. Thank you Rhiannon, and also many thanks to Sue O'Donnell and Kevin Keohane for the excellent support from Christ's College.

Sarah Franklin, Martin Johnson and Nick Hopwood



Join in the conference conversation on Twitter #IVFDec14



About the IVF Histories and Cultures Project (IVFHCP)

This collaborative research initiative began in 2005 as an investigation into the active culture of mammalian developmental biology in the UK after World War 2. This field has yielded some of the most important biomedical innovations of the late twentieth century, including in-vitro fertilisation (IVF), preimplantation genetic diagnosis (PGD), embryonic stem cell derivation, [not uniquely from mammals, of course:] cloning, cryopreservation, chimeras, imprinting, epigenetics and regenerative medicine. We have been interested in how and why such a productive research area developed. Through an initial set of broadly focussed interviews conducted by Martin Johnson and Sarah Franklin with 'key players' in both basic science and also policy formation (now deposited in the British Library), we have concentrated increasingly on the recent history of IVF.

Our first conference was held in 2009 at Christ's College, Cambridge. On the 40th anniversary of the first generally accepted fertilization of a human egg *in vitro*, '40 Years of IVF' brought together an interdisciplinary group of scholars to explore the wider social significance of the rapid expansion of IVF. Our first research paper, examining 'Why the Medical Research Council Refused Robert Edwards and Patrick Steptoe Support for Research on Human Conception in 1971', was published in *Human Reproduction* in July 2010, shortly before the award to Edwards of the Nobel Prize for Physiology or Medicine in December of that year. A second conference, 'Futures in Reproduction', was held in December 2012 to commemorate and further

Edwards' concerns with basic science and reproductive biomedicine, as well as ethics, law and social policy.

Edwards' death in April 2013 was seen by many to mark a watershed in the history of IVF, and it is this history our project continues to explore through a number of interlinked initiatives including a British Academy-funded research project into 'IVF Histories' and an ESRC funded seminar series exploring 'IVF Histories and Cultures'. These are complemented by research being conducted by Martin Johnson and Kay Elder into the early years of IVF in Oldham and Cambridge, research on the history of feminist activism and scholarship concerning new reproductive technologies by Sarah Franklin, and research on representations of IVF in the media and parliamentary debate by Katie Dow. Together with Nick Hopwood, we are continuing to explore the many intersections and implosions thrown up by IVF histories and cultures, including the expansive visual culture of IVF, and its interface with the broadcast media, as well as the interfacing of IVF technology with both agricultural and clinical applications, leading to its emergence as an iconic translational technology.

Throughout our research, we have been grateful to the Wellcome Trust for many sources of support, including two Medical Humanities Research Resources grants and both a Strategic Award (Hopwood) and a Senior Investigator Award (Franklin). With these, and other, resources, we are continuing to conduct interviews, visit and catalogue archives, collect new archival materials and assist with their deposition, publish new articles, organise conferences, workshops and seminars, and build links with cognate researchers around the world. We have also benefited from the support of the British Library, the British Academy, the National Archive, the MRC, the ESRC, the RCOG, the London School of Economics, and both Christ's and Churchill Colleges at Cambridge.

British Library Interview Collection: Stage One Interviewees

John Biggers, Graham Cannon, Bruce Cattanach, Jenny Croft, Roy Cunningham, Frank Dobson, Kay Elder, Richard Gardner, Malcolm Godfrey, Chris Graham, Alan Handyside, Brigid Hogan, Martin Johnson, Mary Lyon, Anne McLaren, John Modle, Marilyn Monk, Virginia Papaioannou, Marcus Pembrey, Ralph Robinson, Roger Short, Duncan Thomas, Mary Warnock.

Archives

We have assisted in the deposit of material to the British Library (McLaren and Monk), LSE archives (PROGRESS and Braude), and Churchill College (Edwards). We are continuing to identify and collect archival material for deposit, as well as searching and identifying relevant material in numerous existing archives including: the National Archive at Kew (MRC papers), the Department of Health Repository (Warnock papers), the LSE (HFEA debate), Bourn Hall and the University of Cambridge.

Further information:

- '40 Years of IVF: 14th February 1969 – 2009'

http://www.pdn.cam.ac.uk/40yearsivf/commemorative_programme.pdf

- 'Why the Medical Research Council Refused Robert Edwards and Patrick Steptoe Support for Research on Human Conception in 1971' *Human Reproduction* 25:9:2157-2174 by Martin Johnson, Sarah Franklin, Matthew Cottingham and Nick Hopwood)

<http://humrep.oxfordjournals.org/content/25/9/2157.full>

- 'Futures in Reproduction' Conference: 15-16 December 2012

<http://www.pdn.cam.ac.uk/futuresinreproduction/speakers.html>

- Biological Relatives: IVF, stem cells and the future of kinship, by Sarah Franklin

<http://open.org/search?keyword=biological+relatives>

IVF HISTORIES AND CULTURES SEMINAR

ATTENDEES DECEMBER 2014

Caroline Blackwell

Virginia Bolton

Judy Boothroyd

Peter Braude

Katie Dow

Jeanette Edwards

Kay Elder

John Fallows

Noni Fallows

Simon Fishel

Sarah Franklin

Zeynep Gurtin

Erica Haimes

Nick Hopwood

Emily Jackson

Martin Johnson

Jenny Joy

Sara Lafuente Funes

Janelle Lamoreaux

Grace MacDonald

Mike Macnamee

Anna Mastroianni

Robert Moor

Dmitriy Myelnikov

Virginia Papaioannou

Lucy Raby

Carol Readhead

Caroline Roberts

Lucy Van de Wiel

John Webster

David Whittingham

Clare Williams

Peter Williams

Duncan Wilson

Kristin Zeiler



IVF HISTORIES AND CULTURES SEMINAR

INTRODUCTIONS

Alphabetical order by surname name



Caroline Blackwell

Caroline was Bob's personal assistant for over 30 years. She began working as secretary to Professor Bunny Austin and on his retirement, carried on working as secretary to Bob and other members of the Craik-Marshall team, including Ruth Fowler until 1985 when she left to join Bob at Bourn Hall Clinic. Caroline worked as Bob's PA and as editorial secretary of the newly established Human Reproduction Journal. The journal office relocated in 1996 and she continued to work as editorial secretary for Human Reproduction and Bob's PA until 2000. In 2000 Bob established a new journal Reproductive BioMedicine Online based at Duck End Farm, where she continues to work on RBMOnline as Managing Secretary.

Virginia Bolton

Virginia Bolton is the Consultant Clinical Embryologist in the Assisted Conception Unit and Centre for Preimplantation Genetic Diagnosis at Guy's & St Thomas' NHS Foundation Trust, and an Honorary Senior Lecturer at King's College London. During the Parliamentary debates leading to the passing of the Human Fertilisation and Embryology Act (1990), she chaired PROGRESS in the successful campaign for legislation to allow licensed research using human embryos. She is a



member of the Executive Committee of the British Fertility Society, and of the Advisory Committee of the National Gamete Donation Trust.

Judy Boothroyd

Our daughter was conceived in 1985, the only survivor of 3 frozen embryos and the tenth successful pregnancy from a frozen embryo. This was our third attempt at IVF at Bourn Hall. We owe a great debt of gratitude to Patrick Steptoe, Bob Edwards and their team for their valuable and philanthropic work.



Peter Braude

Peter Braude is emeritus professor of Obstetrics and Gynaecology at King's College London where until 2011, he was head of the Department of Women's Health and directed the Centre for Preimplantation Genetic Diagnosis for the Guy's and St Thomas' NHS Foundation Trust, which is the busiest and most effective PGD centre in the country. He has been involved in assisted reproduction and embryo research in Cambridge and London for almost 40 years. He was a member of the HFEA (1999–2004), chairman of the RCOG Scientific Advisory Committee (2004–2007), and also chaired the expert advisory committee on Multiple Birth after IVF, which produced the report "One Child at a Time". More recently he was a member of the HFEA core panel that reviewed the scientific methods to avoid mitochondrial disease, and the Nuffield Council on Bioethics panel that considered the ethics of these emerging technologies.

Katie Dow

I have always been fascinated by medicine and biology but lacked the kind of mathematical or scientific ability to be a clinician myself. Given this and my rather complicated family background, it is perhaps unsurprising that I now work on reproduction, parenting and kinship as a social scientist. I first became interested in the ethical and social aspects of assisted reproductive technologies as an undergraduate in social anthropology and I am now working on a new research project looking at how the British media has represented IVF, so am very excited to be part of the conversations that will take place during this conference.



Jeanette Edwards

I am Professor of Social Anthropology at the University of Manchester, and was co-author (with Franklin, Hirsch, Price and Strathern) of one of the first ethnographic studies of the social and cultural implications of assisted conception in the UK (*Technologies of Procreation*). I continued a research interest in ARTs and kinship and directed an EU-funded collaborative project on 'Public Understandings of Genetics'. Two publications relevant to this symposium are *Born and Bred: Idioms of Kinship and New Reproductive Technologies in England* (Oxford University Press) and, with C. Salazar, *Kinship Matters: European Cultures of Kinship in the Age of Biotechnology* (Berghahn Books). I served on the Nuffield Council of Bioethics working party investigating issues of 'disclosure' in the context of donor conception and contributed to the 2013 report *Shared Information in Donor Conception* (London: NCoB). More recently I have been interested in the burgeoning interest in family

history and genealogical research in the UK, and have also been doing some research on ARTs and religion in Lebanon.

Kay T Elder

Kay joined the team at Bourn Hall in 1984 as Clinical Assistant to Mr Patrick Steptoe. Her scientific background as a research scientist at Imperial Cancer Research Fund prior to a medical degree at Cambridge University naturally led her to Professor Edwards and the IVF laboratory, where she worked as a senior embryologist from 1987. A programme of Continuing Education for IVF doctors, scientists and nurses at Bourn Hall was established in 1989, which she directed for 16 years. During this period she also helped in the foundation and running of two Master's degree programmes in Clinical Embryology, and continues to mentor and tutor postgraduate students of Clinical Embryology at the University of Leeds. In her current role as Senior Research Scientist at Bourn Hall she co-ordinates research collaborations with the MRC Laboratory of Molecular Biology in Cambridge and the MRC National Institute for Medical Research in Mill Hill.



John Fallows

Retired as Lead Manager, Pennine Acute Hospitals NHS Trust, Medical Illustration Services in 2010. Collaborated with Mr Patrick Steptoe and Professor Robert Edwards by providing clinical images, cine and video recordings at The Oldham and District General Hospital and at Dr Kershaw's Hospital. In this period, from 1969 to transfer of the IVF project to Bourn Hall, was involved in the production of microscopy images

at Dr Kershaw's Hospital and clinical photographs taken in the Oldham and District General Hospital operating theatres culminating in the still recording of the birth of Louise Brown on 25 July 1978. Additionally, assisted in the production of lecture material, cine-film productions and video tapes for Mr Steptoe on the subjects of laparoscopy in gynaecology, infertility and in-vitro fertilisation.

Noni Fallows.

Retired as Senior Enrolled Nurse – Operating Theatres, Pennine Acute Hospitals NHS Trust, in 1995. First worked with Mr P C Steptoe as an Oldham Nursing Cadet in the Out-Patient's Department, 1967. In the period of nurse training, from 1969 to 1970, worked in theatres with Mr Steptoe and Professor Robert Edwards. Upon qualification in 1971 worked first in Intensive Care Unit and Cardiac Monitoring Units, then transferred to the operating theatres, both at Oldham and District General Hospital, and Dr Kershaw's Hospital, becoming a member of the small team working with Miss Muriel Harris (Theatre Manager). Work carried out with Mr Steptoe which included all aspects of gynaecology, infertility, the recovery of oocytes and associated in-vitro fertilisation.



Sarah Franklin

Sarah Franklin began her research on IVF in 1986 in Birmingham where she conducted one of the first ethnographic studies of assisted conception technology, later published as *Embodied Progress: a cultural account of assisted conception* (Routledge, 1997). While completing her PhD and lecturing at Lancaster University, she worked with

Marilyn Strathern on the ESRC funded study that was published as *Technologies of Procreation: kinship in the age of assisted conception* (Manchester, 1993). Her three co-edited anthologies, along with her single authored monographs *Dolly Mixtures: the making of genealogy* (Duke 2007) and *Biological Relatives: IVF, stem cells and the future of kinship* (2013), have substantially contributed to the social study of reproductive technology. She was elected to the Chair of Sociology at Cambridge in 2011, and is a Fellow of Christ's College.

Zeynep Gurtin

Zeynep Gurtin's research interests concern the social and ethical issues surrounding the globalization of assisted reproductive technologies. Her work specializes in three areas: IVF in the Middle East, egg-donation and egg-sharing, and "reproductive tourism". Her PhD thesis, "The ART of Making Babies", provides an analysis of the cultural constructions of in vitro fertilization (IVF) in Turkey, combining archival analysis or media and regulatory materials with ethnographic research and in-depth interviews with IVF patients and practitioners.



Erica Haimes

I am the Founding Executive Director of the PEALS (Policy, Ethics and Life Sciences) Research Centre, at Newcastle University, U.K. I am also Professor of Sociology in the School of Geography, Politics and Sociology, Newcastle University. My general research interests include: interdisciplinary research on social,

ethical and legal aspects of the life sciences, reproductive and genetic technologies; socio-ethical aspects of the provision of human tissue for research, and the relationship between states, families and medicine with a focus on assisted conception. I also founded the PARTS (Provision and Acquisition of Reproductive Tissue for Science) International Research Network.



Nick Hopwood

Nick Hopwood is a Reader in the Department of History and Philosophy of Science, University of Cambridge, where he teaches history of science and medicine and runs the Wellcome Trust-funded 'Generation to Reproduction' programme that is reassessing the history of reproduction from antiquity to the present day.

Trained in developmental biology, he is the author of *Embryos in Wax* (2002), co-editor of *Models: The Third Dimension of Science* (2004), and co-curator of the online exhibition *Making Visible Embryos* (www.hps.cam.ac.uk/visibleembryos). Chicago will publish *Haeckel's Embryos: Images, Evolution and Fraud* in January 2015.

Emily Jackson

Emily Jackson is a Professor of Law at LSE and Head of the Law department. From 2003-2012, she was a member of the HFEA, and was its Deputy Chair from 2008-2012. Emily is a member of the BMA Medical Ethics Committee and a Judicial Appointments Commissioner.





Martin Johnson

Martin H Johnson FRCOG, FMedSci, FRS is an Editor of RBM Online and Emeritus Professor of Reproductive Sciences in the Department of Physiology, Development and Neuroscience at the University of Cambridge UK. He was, with Richard Gardner, Bob Edwards' first graduate student (1966-1969), and opened the Nobel Symposium on Bob's work in Stockholm, 2010.

Jenny Joy

I am the second of Robert Edwards's five daughters. I worked at Bourn Hall as an auxiliary nurse when it first opened then later returned to do some work in the labs (in the early days of micro-manipulation). Around this time I also helped my father with the indexing of his book *'Conception in the Human Female'*.

Since November 2013 I have been involved in the creation of his archive which involved reading through many of his papers which I had not seen before and that the family did not know existed. I feel I now know more about his working life than ever before.



Sara Lafuente Funes

Sara Lafuente Funes is PhD Candidate at Universidad Complutense of Madrid and holds a pre-doc position at the Institute of Public Goods and Policies at CSIC – the Spanish National Research Center. She is interested in imaginaries around reproduction and, in particular, in how economic and gender ideas get entangled on the way in which eggs, fertilization and parthenogenesis

are thought of and imagined nowadays. Currently she works both on her dissertation and on the research group “The bioeconomy of Reproduction: the mutually constitutive interaction between assisted reproduction and regenerative medicine” whose main researcher is Vincenzo Pavone and where she investigates egg donation in Spain.

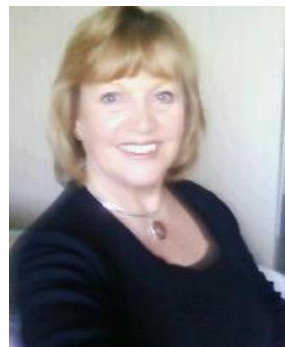


Janelle Lamoreaux

Janelle Lamoreaux specializes in the anthropology of science, technology and medicine with an emphasis on reproduction, kinship, and gender. As a recent graduate of the University of California and San Francisco's Joint Program in Medical Anthropology, her dissertation investigates the relationship between reproductive and environmental health in China, especially as it relates to male infertility. When not rambling around Cambridgeshire or tending to her garden, Janelle is working on a book manuscript currently titled *Infertile Futures: Producing and Reproducing the Chinese Environment*.

Grace MacDonald

I had the privilege and good fortune to have been selected to take part in Robert Edwards and Patrick Steptoe's early studies on 'Human Reproduction' or IVF as it became known. I first wrote to Patrick Steptoe in Oldham in 1975 asking if he would consider me as a candidate on the programme he and Robert Edwards were conducting to help childless couples have their own babies. Once accepted, I underwent my first attempt in February 1977 which was unsuccessful. A second attempt in May 1978 proved successful and my son Alastair was born on the 14th January 1979, the second IVF birth



and the proof that the procedure was not a fluke following the birth of Louise Brown. My gratitude and admiration for Robert Edwards and Patrick Steptoe will never diminish and I count myself really blessed to have known both of them.



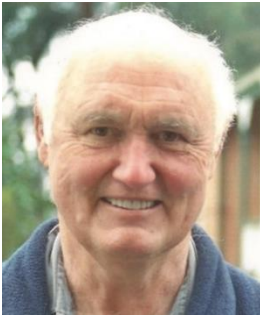
Mike Macnamee

Mike Macnamee has over 20 years scientific and management experience in the field of infertility, rising through clinical embryology/endocrinology to replace Professor Sir Robert Edwards as Scientific Director of Bourn Hall Clinic in 1991 and to General Manager in 2000. He has worked internationally in the research of reproductive drug development with over 60 peer reviewed published papers.

Anna Mastroianni

Anna Mastroianni, JD, MPH, is Professor of Law and Public Health Genetics at the University of Washington (Seattle, USA), with additional appointments in the Schools of Medicine and Public Health. Her extensive scholarship bridges health law, bioethics and policy, with a particular focus on biomedical research, technologies and their applications. Her scholarship in IVF and other reproductive technologies was inspired by the pioneering work of her late father, Luigi Mastroianni, MD, whose numerous accolades included the 1989 King Faisal International Prize for Medicine for his work on infertility (shared with Professor Robert Edwards).





Robert Moor

After completing my doctorate in Cambridge it was my privilege to join the Unit of Reproductive Physiology and Biochemistry, commonly referred to as the Cambridge Animal Research Station. Despite its exceptional productivity, the Animal Research Station was closed during the Thatcher years and the staff were moved to the Babraham

Institute where I headed the Department of Molecular Embryology until my retirement. My scientific interests centre around the development of the mammalian egg, the nature of the ovarian environment in which the egg develops and the means by which the embryo signals its presence to the mother in early pregnancy.

Dmitriy Myelnikov

Dmitriy Myelnikov is a PhD student in the History and Philosophy of Science department who has submitted a thesis on the history of genetically modified mice. His interests lie in the history and sociology of post-war biomedical sciences, human-animal interactions and science-media relations.



Virginia E. Papaioannou

Virginia Papaioannou, PhD, Professor of Genetics and Development Columbia University Medical Center New York, NY USA. Bob Edwards gave me my first job probing the mysteries of the embryo. I had a fresh PhD in genetics and an interest in

embryology when I interviewed for a postdoc in the Marshall Lab in 1972 and where I worked until 1975. I worked under Richard Gardner and concentrated on early cell lineage relationships, using micromanipulation, and on genetic effects on early embryogenesis, using embryonic lethal mouse mutants. Ours was one of several areas of basic science centered on reproduction and early embryogenesis in the Marshall Lab. Although I had no direct involvement with the human IVF work, the value of basic research was always considered foremost in informing the clinical studies. My subsequent career was indelibly shaped by those years and I have continued in basic developmental genetics to this day.

Lucy Raby

Lucy Raby could be described as an IVF veteran. After 3 years of tubal surgery, Clomid and 'low-tech' endeavour, it was concluded that an IUD had caused irreparable damage. She started on the IVF programme at Bourn Hall in 1984, where she contributed to the 2nd phase of early research under pioneers Patrick Steptoe and Robert Edwards. On her 2nd attempt she conceived, but miscarried twins in



1986 due to ectopic complications. Undeterred, she continued trying, and after 3 more full treatments and 3 FERs, gave birth in 1988 to her daughter Isabel, one of Britain's 1st 200 frozen embryo babies. Further attempts followed, but at over 40, Lucy and her husband Peter were just grateful for their beautiful daughter. Despite the trials and tribulations of IVF, they found their treatment at Bourn Hall to be a caring, supportive and life-enhancing experience, resulting in lasting friendships, and the family have since visited the clinic on many happy occasions for reunion events.

Carol Readhead

Carol Readhead did her PhD with Bob Edwards from 1972-1976. She had a small desk just outside Bob's office in the Marshall lab and was a witness the controversy and opposition that surrounded Bob's work prior to the birth of Louise Brown.

She now works in Scott Fraser's Translational Imaging centre at the University of Southern California doing live time-lapse imaging of germ cells in the developing embryo. She is also a visiting researcher in Azim Surani's lab at the Gurdon Institute. In Azim's lab she is working on filming early germ cells in the mouse embryo soon after they become specified.

Caroline Roberts

My name is Caroline Roberts and I am the eldest daughter of Professor Robert Edwards. I have two children, twins both aged 16 and live in Sevenoaks in Kent. IVF has been a part of my life through my father's work over the years and I also know many people in the Sevenoaks area who have had IVF children. When I was going through my teenage years was the time that my father spent a lot of time travelling to



and from Oldham so the nature of his work did not really register with me at the time. Oldham was remote from the family and he was absent from home for a great deal of the time during the 1970's. It was really from 1978 and onwards that I had a better understanding of his work and what he had achieved through IVF.



Lucy van de Wiel

Lucy van de Wiel is a PhD fellow at the Amsterdam School of Cultural Analysis, University of Amsterdam, under the supervision of Prof. dr.Mieke Bal, Prof. dr. José van Dijk and dr. Esther Peeren. Her research focuses on the changing understanding of ageing and the reproductive body as displayed in public, political and medical discourses surrounding egg freezing (oocyte cryopreservation). She holds a BA (English Language and Culture, cum laude) and Research MA (Cultural Analysis, cum laude) from the University of Amsterdam. She pursued postgraduate studies as a HSP and Fulbright grantee in Rhetorics at the University of California, Berkeley and graduated with distinction in the MA Film Curating at the London Film School and London Consortium, University of London. She has published on egg freezing, the history of menopause and the gender politics of ageing in the International Journal of Feminist Approaches to Bioethics, the special issue on Non-reproduction in Studies in the Maternal and the special issue on *Choosing Mothering?* in Women's Studies International Forum.

John Webster

Many people are aware that Patrick Steptoe along with Bob Edwards pioneered IVF but are unaware that he was also the pioneer of Laparoscopy in the UK. It was remarkable that both techniques were developed in the environs of a district general hospital and not in a university setting and I was fortunate to work with him in the early 60's when he was developing Laparoscopy and from 1974 until 1978 during which time I obtained my M.R.C.O.G. and became involved in IVF. It was a great honour for me to assist Patrick at the Caesarean section to deliver Louise Brown late in the evening on Friday, July 25th 1978. I subsequently moved to Cambridge in Sept. 1980 to help Patrick and Bob set up Bourn Hall, the World's first IVF clinic. In 1985 I left Bourn to set up an IVF service in Nottingham.

David Whittingham

Emeritus Professor of Embryology St George's, University of London. Former Director of the MRC Experimental Embryology Unit and Professor Reproductive Physiology, Medical School University of Hawaii. Much of this early work contributed to the development of suitable media for oocyte maturation, IVF, embryo culture, transfer and storage in the human and other mammals. He achieved the first successful fertilization of mouse oocytes in vitro and the birth of live young. At the time it was only the second mammal in which IVF and the birth of live young had been obtained.

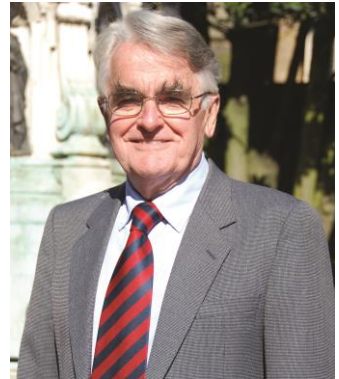


Clare Williams

Dean of Research, Professor of Medical Sociology, Dept of Social Sciences, Media & Communications Brunel University London. My research interests lie primarily with the social, clinical and ethical issues resulting from new reproductive technologies, with the focus on practitioners as opposed to women and couples. Recent projects have included the varying definitions of what constitutes a 'spare' embryo for use in stem cell research; and the widening criteria for PGD.

Peter Williams

Working with the team led by Robert Edwards and Patrick Steptoe, Peter Williams made the definitive documentary films on the first IVF baby Louise Brown, in 1978 (*To Mrs Brown, a Daughter*). Later, working with Howard and Georgeanna Jones in North Virginia, he recorded the birth of Elizabeth Jordan Carr, the first IVF baby in the USA (*A Daughter for Judy*). During a distinguished career in television, he has found the wreck of the Titanic, confronted Japanese scientists who conducted biological warfare experiments on PoW's during World War Two, documented the life of Lord Reith and charted a year in the life of Canterbury Cathedral and of the Bank of England. In 2004, he was awarded the MBE for his contribution to the arts and television. He is chair of Canterbury Marlowe Theatre Development Trust and is President of the Canterbury Festival.



Duncan Wilson

Duncan Wilson is based at the University of Manchester's Centre for the History of Science, Technology and Medicine (CHSTM). He is a modern historian, whose work investigates changing notions of health, disease and morality in the nineteenth and twentieth centuries. IVF and embryo research have featured prominently in his work so far. His 2014 book on *The Making of British Bioethics* charts how growing criticism of IVF and embryo research in the 1980s underpinned the emergence of bioethics as a visible term and approach in Britain, with philosophers, lawyers, theologians and other 'outsiders' playing a crucial role in issues that had previously been left to doctors and scientists.

Kristin Zeiler

Kristin Zeiler is Associate Professor at the Department of Thematic Studies: Technology and Social Change, Linköping University, Pro Futura Scientia Fellow at the Swedish Collegium for Advanced Study, Uppsala University and, during the academic year 2014-2015, Visiting Fellow at CRASSH, Cambridge University. Her



research explores ethical, social, and cultural aspects of the development and use of medical technologies with a focus on embodiment, agency and intersubjective meaning-making. She is PI of the project 'Towards an Ethics of Bodily Giving and Sharing in Medicine' and currently working with a monograph on the making of altruistic gamete, tissue and organ donation, which combines feminist phenomenology with feminist science and technology studies.



Generation to Reproduction

Cambridge historians of medicine and biology are using a Wellcome strategic award to take a concerted approach to the history of reproduction. The cross-disciplinary group of researchers will offer fresh perspectives on issues ranging from ancient fertility rites to IVF. Building on a lively field of historical investigation, this will provide a fresh basis for policy and public debate.

‘Generation’ and ‘reproduction’ are at the heart of ‘life-cycle’ medicine. They involve

- theories of sex and gender;
- entities such as seeds, germs, embryos, monsters and clones;
- concerns about creation, evolution, degeneration and regeneration;
- investments in maternity, paternity and heredity;
- practices of fertility control, potency and childbirth; and
- health relations between citizen and state, individual and population.

‘Generation to reproduction’ thematizes gradual, long-term shifts and modern transformations. Within an all-encompassing process of ‘generation’, the human acquisition of a rational soul was the crucial event. In the era of revolutions around 1800 this gave way to the more narrowly framed ‘reproduction’. Reproduction became an object of scientific knowledge, a target of medical and agricultural intervention, and a project for pressure-groups and states seeking to improve the quantity and quality of populations. Since World War II, scientific, social and ethical innovation has been particularly dramatic. But the term ‘generation’ has not disappeared; it has rather acquired new meanings, from ‘F1’ to ‘generation X’.



The Reproductive Sociology Research Group was established in October 2012 to develop and support funded research on the technological transformation of reproduction and related forms of social and cultural change. Led by Sarah Franklin, ReproSoc is designed to add a specifically sociological perspective to the wider context of reproductive studies at Cambridge. It builds on a number of projects including the Cambridge Interdisciplinary Reproduction Forum (CIRF), and the Generation to Reproduction Programme led by Nick Hopwood in HPS, and the IVF Histories and Culture Project (IVFHCP). ReproSoc has close ties to Susan Golombok's Centre for Family Research (CFR) as well as to CRASSH, Cambridge's Centre for Research into the Arts, Social Sciences and Humanities. It is based in the Department of Sociology and has funding from a range of sources including the Wellcome Trust, British Academy, ESRC, ERC and Office of the Vice Chancellor.

ReproSoc currently consists of 15 members who meet regularly throughout the year to share and develop research in progress. Our four postdocs are Dr Zeynep Gurtin, Dr Katie Dow, Dr Janelle Lamoreaux and Dr Marcin Smietana. Our Project Manager and Research Administrator is Rhiannon Williams, who is aided by two Research Assistants, Dilar Dirik and Dmitriy Myelnikov. Martin Johnson is a Consultant to the research group and six PhD students are linked to ReproSoc: Robert Pralat, Katie Hammond, Melisa Trujillo, Dilar Dirik, Dmitriy Myelnikov, and Karen Jent.

Our research covers a broad range of topics from cross-border reproductive care, the history of IVF, male infertility treatment, infertility and toxicology in China, surrogacy, stem cell research, non-heterosexual parenting aspirations, the IVF-stem cell interface, and IVF in Turkey. By combining historical and ethnographic approaches to the intersection of reproduction,

technology and society, our aim is to develop more generalizable sociological claims about, for example, changing definitions of nature and ethics, the biologization of technology, translational biomedicine, the political economy of reproduction, and theories of kinship and gender.

Our work thus contributes to sociology and anthropology, science and technology studies, social and oral history, feminist and queer theory, and the social study of biomedicine, bioscience and biotechnology, as well as other fields. We run a programme of visiting speakers, public lectures, workshops, conferences and other events that are open to the public and we welcome enquiries about us and our work via our webpage, which offers many resources related to the study of reproduction, technology and society. You can follow us on Twitter and Facebook, or join our mailing list for updates and announcements. We are committed to making outreach not only part of what we do, but part of how we learn, so we look forward to hearing from you and hope you visit us soon.

<http://www.reposoc.sociology.cam.ac.uk/>

reposoc@hermes.cam.ac.uk



twitter.com/ReproSoc



www.facebook.com/reposoc.cambridge

The Mond Building
New Museums Site
Free School Lane
Cambridge
Telephone: 01223 332 459

Acknowledgements

The organisation of this workshop would not have been possible without an ESRC Seminar Series award to the IVF Histories and Cultures Project in 2013. We would like to acknowledge the generous support of the British Academy in selecting the IVFHCP to become an Academy Research Project (ARP), with a corresponding commitment to an initial 5 years of financial support. Additional support has been provided by the Wellcome Trust, both in financing the early stages of interdisciplinary research on mammalian developmental biology in the UK, from 2007 to 2009 (Johnson), and later through two awards: 'Generation to Reproduction' (Hopwood, 2009 – 2015) and 'Fertilization Through a Looking Glass' (Franklin, 2013 -2018). Support for this workshop has also come from the Cambridge University Office of the Vice Chancellor, the Cambridge Department of Sociology, and Christ's College.

We are especially grateful to Sue O'Donnell for ably assisting us with the hosting of this event, and to the Cambridge University Travel Office. Special thanks are due to the members of the Reproductive Sociology Research Group (ReproSoc) -- in particular Katie Dow and Rhiannon Williams, who calmly and efficiently ensured no stone was left unturned in the pursuit of administrative perfection....



Christ's College Cambridge



UNIVERSITY OF
CAMBRIDGE

[illegible]



Christ's College Cambridge

PUBLIC EVENING LECTURE

Prof. Martin
JOHNSON

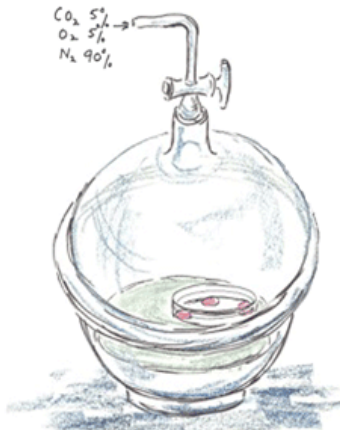
MA, PhD, FRCOG, FMedSci, FRS
Emeritus Professor of Reproductive Sciences

Dr. Kay
ELDER

MBChB PhD
Senior Research Scientist Bourn Hall Clinic

A HISTORY OF EVENTS LEADING TO THE BIRTH OF LOUISE BROWN

A lecture based on unique access to data recorded in Oldham, 1969-1978



Drawing of embryo chamber by scientist Jean Purdy

11th December 2014 Yusuf Hamied Lecture Theatre
Christ's College Cambridge 5:30pm