THE JENNER SOCIETY

Medical Science at Moreton Hall

AUTUMN 2017 PROGRAMME

Moreton Hall
MEDICAL SCIENCE
AT MORETON HALL

Now in its seventh year, the Jenner Society is a Medical Science Society established and run by the Lower Sixth at Moreton Hall, with the support of the Science Department. We invite speakers to discuss biological developments in the news and attend a range of events and workshops that have all helped Moreton girls to investigate and pursue careers in the Medical Sciences and in Veterinary Science.

We have been delighted by the interest and support that the Jenner Society has received and have invited a group of leading medics and academics to help us to steer the Society into the future. Under the Chairmanship of Josh Dixey, details of the Jenner Society Steering Group are included in this booklet.

Our aim, to make the Jenner Medical programme available as a forum for pupils from other local schools and colleges to learn and explore advances in medical science, is beginning to bear fruit. Links with Keele University Medical School and elsewhere are now enabling us to extend our programme further afield and this year we are running STEM workshops with St. Martin’s School to raise aspirations at a younger age.

With Moreton’s strong tradition of preparing girls for medical and veterinary careers, this is a very exciting time for the Jenner Society. With more girls than ever choosing science as a career, we hope to provide our pupils with the resources that they need to excel.

For the next academic year we have invited a wide range of speakers and planned events that we believe will help our students to pursue careers in Medical and Veterinary Science. We hope to attract students from other schools to the Faculty.

If you are reading this programme as a parent, Old Moretonian or simply as a student interested in Medical Science, have a look at which events and or speakers you would like to attend/ or perhaps consider coming and talking to the Jenner Society yourself.

HANNAH PEEL
Head of Biology
DATES FOR AUTUMN TERM 2017

FRIDAYS
5.10pm - 6.00pm Medical Sciences laboratory, Moreton Hall Science Centre

SEPTEMBER
Friday 8th September
“A new Biosensor for Diagnosing Cancer”
Sammy Chen, Upper Sixth student Moreton Hall

Friday 29th September
“Brachycephalic Obstructive Airway Syndrome (BOAS)”
Anna Kahn BSc MA VetMB MRCVS, is a Veterinary Surgeon in general practice

OCTOBER
Friday 6th October
“Medicine: An Unexpected Journey”
Dr. Sarah Bailey.
Briefing for parents and students on Veterinary and Medical applications will follow this talk at 6pm

Friday 13th October
“Life as a PhD student – treating cartilage defects within the knee and ankle”
Jessica Sykes, Keele University

November
Friday 3rd November
“Human Evolution”
Dr Jan Hoole, The School of Life Sciences at Keele University

Friday 10th November
“Treating animal eyes - the world of veterinary ophthalmics”
Emma Hayton Lee discusses Veterinary Ophthalmics

Wednesday 15th November
“MMI Event RJAH”
Multiple Mini Interview practice event at RJAH Shrewsbury 6-9pm

Friday 24th November
“The Jenner Debate”
Students will debate a current topic in Veterinary or Medical science

Monday 27th November
“Biology in Action Conference”
Warwick University

DECEMBER
Friday 1st December
“Snow on Snow”
A talk about John Snow who was born 200 years ago last March and is regarded by many as the father of modern epidemiology.
Dr Stephanie Snow
STEERING COMMITTEE PROFILES

JOSH DIXEY
A Consultant Rheumatologist with special interest in inflammatory and degenerative arthritis and soft tissue rheumatism. Shrewsbury and Telford Hospital NHS Trust, Royal Shrewsbury Hospital The Robert Jones and Agnes Hunt Orthopaedic Hospital NHS Foundation Trust.

RICHARD SPENCER JONES
Consultant Orthopaedic Surgeon Royal Shrewsbury Hospital and Robert Jones and Agnes Hunt Orthopaedic Hospital NHS Foundation Trust. Shropshire. Director of Specialist Registrar Training Programme, Lead Consultant, Arthroplasty Firm, RJ&AH Member of Alliance Surgical Consultant Orthopaedic Surgeon, Royal Shrewsbury Hospital Shropshire Nuffield Hospital Director of Specialist Registrar Training Programme (Oswestry / Stoke on Trent Rotation)

RUTH LONGFELLOW
Consultant Anaesthetist, Robert Jones & Agnes Hunt Orthopaedic Hospital in Gobowen. MB ChB, FRCA, Diploma in Medical Education, University of Edinburgh. Special interests: Regional anaesthesia for Upper Limb Surgery, Nerve infusion catheters for post-operative analgesia.
SALLY ROBERTS
Professor, ISTM, Keele University and Director of Spinal Research at RJAH Orthopaedic Hospital, Oswestry. Director of Spinal Research unit specialising in bioengineering. Last year her team invited girls from Jenner to look around their research laboratories at RJAH and to take part in the preparation of microscope slides.

ANDREW TAPP
 Consultant Surgeon in Obstetrics and gynaecology. Specialist Areas; General gynaecology, Gynaecological surgery, Pelvic floor surgery, Urogynaecology. Special Interests; Minimal access surgery. Practices at The Royal Shrewsbury Hospital, The Shrewsbury and Telford Hospital NHS Trust, The Robert Jones and Agnes Hunt Orthopaedic Hospital, The Robert Jones and Agnes Hunt Orthopaedic Hospital NHS Foundation Trust, Nuffield Health Shrewsbury Hospital, The Princess Royal Hospital - Apley Ward.

MELISSA GRANT
A lecturer in biological sciences within the school of Dentistry at Birmingham University. Public engagement ambassador in the School of Dentistry. Special interest in defining proteomic profiles of inflammatory fluids and disease development.

JASMINE SINGH AND LILY MAINWARING
Aspiring Medics and Upper Sixth Formers Jasmine and Lily are our student representatives on the Jenner Committee this year.
SPEAKER PROFILES

SAMMY CHEN
Sammy is in Upper Sixth and is going to talk about the project that she is involved in for the iGEM (International Genetically Engineered Machine) Competition with her team, BGIC-Union, in China. With the opportunity and the inspiration provided by iGEM, they have come up with an idea to apply Synthetic Biology to cancer diagnosis. The aim of the project is to design a powerful biosensor in a testing paper form that is capable of detecting DNA sequences and then to apply this technique in order to develop a fast effective diagnostic method for cancer.

DR STEPHANIE SNOW
John Snow, who was born 200 years ago, is regarded by many as the father of modern epidemiology. Dr Stephanie Snow, a Senior Research Associate at the Centre for the History of Science Technology and Medicine at The University of Manchester, who is married to a descendent of the famous medic, will give a talk to Moreton’s Jenner Society about his life and work. A must for all aspiring physicians.

DR JAN HOOLE
She came to Keele University in 1992 as a PhD student and has been here ever since. Her first degree, BSc (Hons), was in Science and the Environment from Leicester Polytechnic and after completing her PhD on the molecular conservation of endangered insects, she began teaching part-time at Keele, while carrying out post-doctoral research on the effects of the tapeworm Ligula on the gonads of infected roach. She continued to teach part-time while running Ashley Pet Behaviour Centre and practicing as a Pet Behaviour Counsellor. In 2008 she took on a greater role at Keele, being appointed as a lecturer. Her particular fields of interest are animal behaviour and human evolution and she helped to set up, and now manage, a final year module on Human Evolution, and is still pressing to have more animal behaviour included in the curriculum. In addition she has forged links with various local zoos.
**JESSICA SYKES**
Jessica completed her degree in Biomedical Science in 2013, and worked for a year at Wrightington, Wigan and Leigh NHS Hospital as a clinical trials assistant, setting up and running clinical research trials in a variety of specialities including: ENT, orthopaedics, gynaecology and rheumatology. She followed this with a masters in Translational Medicine at Liverpool University graduating, where she researched the possibility of fusion events between stem cells and gastric cancer. This led to her PhD at Keele, based at the RJAH, looking at cartilage defects within the foot and ankle. She is currently in her third and final year focusing on clinical and laboratory research, helping to bring basic biological research from the laboratory into the clinic.

**DR. SARAH BAILEY**
Dr. Sarah Bailey is an FY1 Doctor currently practising in the West Midlands. Specialising in Upper Gastrointestinal surgery, Sarah hopes to go onto study a Masters Degree in Sports & Exercise Medicine next year. Sarah also works with the Worcester Warriors RFC and hopes to have a career working with medical teams in elite sport.

**ANNA KAHN**
Anna Kahn BSc MA VetMB MRCVS took a degree in Pharmacology at Aberdeen University and then went to Cambridge for her Veterinary degree, graduating in 1990. Since then veterinary medicine has taken her from St Kilda, in the outermost Hebrides to a Russian monastery farm just after Perestroika. She has spent time in academia and industry but always comes back to general practice since, ultimately, she finds it most rewarding.

**EMMA HAYTON LEE**
Emma qualified as a Veterinary Surgeon from Liverpool University in 1991. She then worked in general small animal practice for 9 years. Having then gained the postgraduate certificate in Veterinary Ophthalmology she has worked solely in this field for the last 17 years. Emma currently works in a dedicated Veterinary Ophthalmology referral centre just outside Leominster. One of the most challenging but rewarding parts of the job is cataract surgery where restoring vision to a blind dog can as many owners report “make them like a puppy again”.
Previous Speakers

Rachel Pritchard, Superintendent Radiographer for North Powys

Emma Woolley, MBChB, BDS, FDSRCS, FRCS (Eng), Spire Abergale and Wrexham Consulting Rooms, Spire Yale Hospital

Dr Sharmi Bhattacharyya Consultant Psychiatrist for Older people in Wrexham Maelor Hospital and Honorary Senior Lecturer at University of Chester.

Janet Douglas, PhD MSc MA, Vet MB, Honorary Assistant Professor University of Nottingham School of Veterinary Medicine and Science

Professor Sally Roberts, ISTM, Keele University and Director of Spinal Research, RJAH Orthopaedic Hospital, Oswestry.

Carey Bloomer RGN, Dementia; causes and care of patients at Uplands Care Home.

Rev. Harry Edwards, Chaplain at Severn Hospice

Dr Ron Pickering, 'Long Road to Galápagos'.

Mr Richard Spencer Jones, Orthopaedic Surgeon

Dr Alastair Chadwick, Modern Dentistry and Orthodontic treatment

Mr David Snow, Surgeon, specialising in Ears, Nose and Throat

Anna Kahn BSc MA VetMB MRCVS, Current Controversial Issues in Veterinary Science

Bryan Lott, The life of a Paramedic

Barbara Mackereth, Midwife, Midwifery courses and interviews for courses.

Mrs Jane Davies, working in the NHS as a senior District Nurse.

Dr Stephanie Snow, Snow on Snow. A talk about John Snow the father of modern epidemiology.

Dr Jane Povey, Clinical Leadership Development Director. Current NHS reforms.

Dr Debbie Bunting Stewart, Clinical Psychology as a career

Professor Susan Jebb, Head of Diet and Population Health at the Medical Research Council Human Nutrition Research unit (HNR) in Cambridge, UK.

Melissa Grant, lecturer in biological sciences within the School of Dentistry, Birmingham University.

John Spencer BVSc MRCVS, specialist equine reproduction veterinary surgeon, Fyrnwy equine clinics.

Ed Matson, Twemlow's Stud Farm, one of the UK’s leading Artificial Insemination and Embryo Transfer centres

Dr Rhys Davies, Palliative Medicine.

Becky Lewis (OM), Zoology at Cambridge, the true story

Charlotte Hulme, PhD research student from Manchester University - Research into the effects of Diabetes during pregnancy
Professor Joanna Price, Head of Bristol University Veterinary School, “Rutting deer stags, jumping grannies, racing horses and toothless cats: why bones are never boring”

Dr Stephen Stanaway, Consultant Endocrinologist, Wrexham Maelor Hospital, Diabetes Unit. Dr Stanaway will discuss why he is raising money for Diabetes charities by climbing Mt. Aconcagua.

Professor Douglas Kell, Manchester University Biology and Nanoscience. “Will the future of biology be very small?”

Dr Ruth Longfellow, Consultant Anaesthetist, Robert Jones & Agnes Hunt Orthopaedic Hospital in Gobowen. “Anaesthesiology”

Dr Mark Cheetham, Consultant Surgeon Nuffield Health Shrewsbury Hospital, Group Medical Director for Scheduled Care. “General surgery; training in surgery, a short history of surgery and technological advances in surgery.”

Matthew Dryden is a consultant specialising in microbiology and communicable disease and is based at the Royal Hampshire County Hospital in Winchester.

James Russell, is a dentist with a special interest in cosmetic and restorative dentistry

Dr Corrin Hickerton, Dentistry and applying to Dental School

Sian Piret (OM), Research into Inherited Kidney Disease

Jason Kasraie, “Assisted conception - past and future”

Mr Andrew Pickersgill, Laparoscopy

Dr Adrian Murray & Eleanor Taylor, Making Babies

Emily Slack (OM), Life as a first year medical student

Professor Stephen Eisenstein, A life in spinal surgery

Stephen Jones, Pharmaceutical Marketing

Dr Jan Hoole, The School of Life Sciences at Keele University

James Russell, Dentist with a special interest in cosmetic and restorative dentistry

Emma Woolley, “Maxillofacial Surgery”

Louise Dunn, Director of Marketing and Communications at Alder Hey Children’s NHS Trust

Phoebe Griffith, “Going Viral - Zoonotic Spill over and pandemic Potential”

Dr. John Jones, Shrewsbury and Telford NHS Trust Senior Leadership Team and Chair of the Medical Education committee

Janet Douglas, “The evolution of the horses leg”

Pam Kiel & James Kiel, “A week in the life of a GP”

Rachel Pritchard, Superintendent Radiographer for North Powys, “What do you know about Diagnostic Radiography and Medical Imaging?”

Hannah Collings OM, “Science Careers Outside of the Lab”

Kirsty Williams, “The Science of Bees”

Hattie Griffith OM, “Army Officer - not necessarily what you would think?”