Symposium: Anatomy Modelling - Saturday 30 January 2016

Speaker	Talk Title	Talk abstract	Speaker Biography
Dr Liz Hallam, University of Oxford (Keynote Speaker)	*Bodies, materials, techniques: designing 3D anatomical models*	Design is central to the medical world, yet often remains invisible. This talk explores three-dimensional models of human anatomy designed for medical education and surgical training. Anatomists and surgeons develop striking and influential designs, collaborating with assistants and artists, devising extraordinary techniques and experimenting with many materials from wood to wax and vibrant plastics. Examining the imaginative work of anatomical modelling, this talk goes behind the scenes of the current RCS exhibition, Designing Bodies, guest curated by the speaker.	Elizabeth Hallam is a Research Associate in the School of Anthropology and Museum Ethnography, University of Oxford, and an Honorary Senior Research Fellow at the Department of Anthropology, University of Aberdeen. In 2014-16 she is a visiting scholar at the University of Melbourne. Her research and publications focus on the anthropology of the body; death and dying; material and visual cultures; histories of collecting and museums; the anthropology of anatomy; three-dimensional modelling and mixed-media sculpture. Her recent books include Medical Museums: Past, Present, Future (co-edited with Sam Alberti, 2013), Making and Growing: Anthropological Studies of Organisms and Artefacts (co-edited with Tim Ingold, 2014), and Anatomy Museum: Death and the Body Displayed (to be published by Reaktion in June 2016). She has edited a volume of essays and photographs, Designing Bodies: Models of Human Anatomy from Wax to Plastics (2015) to accompany the exhibition she guest curated at the Royal College of Surgeons of England.
Eleanor Crook, Sculptor	*Modelling in Wax*		Eleanor Crook trained in sculpture at Central St Martins and the Royal Academy and makes figures and effigies in wax, carved wood and lifelike media. She has also made a special study of anatomy and has sculpted anatomical and pathological waxworks for the Gordon Museum of Pathology at Guy's Hospital, London's Science Museum, and the Royal College of Surgeons of England. She exhibits internationally in both fine art and science museum contexts. She learned the technique of forensic facial reconstruction modelling from Richard Neave and has demonstrated and taught this to artists, forensic anthropology students, law enforcement officers and plastic surgeons as well as incorporating this practice in her own sculpted people.

Dr Anna Maerker, Kings College London	*Dissections in papier-mâché: the models of Dr Auzoux*	The anatomical waxes of the eighteenth century were celebrated for their beauty and accuracy, but medical teachers criticised that they were fragile and did not allow for much hands-on interaction. Around 1820, the French doctor Auzoux developed a solution to this problem in the form of models made from a paper paste: his models were robust, detachable, and could be produced in series using moulds. He established a factory which was praised not just for the quality of its output, but also for the moral guidance and education it provided to workers. His products were sold globally, in the USA and Japan as well as in Brazil and Egypt. The talk will introduce key aspects of Auzoux's models, and those of his contemporaries and competitors, to analyse the quest for the perfect model.	Dr Maerker pursued undergraduate studies in physics and history of science at the University of Regensburg. She received an MPhil in History and Philosophy of Science from Cambridge University, and an MA/PhD in Science & Technology Studies from Cornell University. Before joining King's Dr Maerker has held posts as a Postdoctoral Research Fellow at the Max Planck Institute for the History of Science, Berlin, and as a Senior Lecturer at Oxford Brookes University. Dr Maerker's research focus is on the material and visual culture of medicine and science since the eighteenth century. In particular, she is interested in the role of collections, museums, and models, for the circulation of knowledge and for the relationship between experts and the public; the history of anatomical models; performance and commodification in medicine and science. Her current research investigates the creation of a global market in anatomical models in the nineteenth century.
Miranda Lowe, Natural History Museum	*Blaschka: Glass creatures of the Ocean*	A unique blend of science, art and craftsmanship the Blaschka glass models were made by the father and son team of Leopold (1822-1895) and Rudolf (1857-1939) Blaschka. These incredibly beautiful, anatomically accurate and frighteningly delicate models sold to museums, universities and private collectors all over the world. In the past, these models were of great scientific importance in teaching but as trends change their significance as works of art are also being highlighted. This talk will focus on the Blaschka models, in particular the marine invertebrate models which they made throughout their career. Use of the models throughout their history will also be explored plus the techniques required to make them and their importance to Natural History collections.	Miranda Lowe is a Museum scientist and Collections Manager of Invertebrate Zoology in the Life Sciences department at the Natural History Museum, London. With her curatorial skills she cares for a plethora of historically important specimens, including those collected from the HMS Discovery and HMS Challenger historical oceanic expeditions, and Darwin's Barnacles. Her specialist areas of interest and research are marine invertebrates especially Crustacea (crabs, shrimps, lobsters & terrestrial woodlice) and Cnidaria (Corals & jellyfish).

Annette Townsend, Amgueddfa Cymru – National Museum Wales	*Botanical Wax Model Making*	A look at the Amgueddfa Cymru – National Museum Wales' unique botanical model collection, with a detailed view of how wax models are made, their historical context and relevance to modern natural history displays.	Annette Townsend is the Senior Conservator of Natural Sciences for Amgueddfa Cymru – National Museum Wales with more than 15 years' experience on the care and conservation of the museum's extensive collection of Botanical models. She is also an experienced artist in her own right, specialising in Botanical wax model making, and has made privately commissioned works for institutions around the UK.
Clare Rangeley, Model-maker	*How to make a brain: Designing bodies for surgical training*	How to make a brain: Designing bodies for surgical training - exploring the 3 key elements to making a successful training model; Anatomy, Materials and Cost	Clare Rangeley is a practising Sculptor and Model-Maker specialising in medical training models, ceramic sculptures and theatre props. She worked at Limbs and Things in Bristol for over 20 years where she was involved in making a wide range of models from in-growing toenails, circumcision and gall bladder removal trainers to a birthing trainer and beating heart model. She is currently working with Martyn Cooke at the RCS to develop a Paediatric Brain model to train the next generation of Neurosurgeons.