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NEUROTECHNOLOGY: A paradigm shift in neurorehabilitation

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HARRY LAMBERT

*Barrister, Coroner
and Founder of the INL*

DR. JAMIE BRANNIGAN

*Clinician Scientist
University of Oxford*

**PROFESSOR ANNE
VANHOESTENBERGHE**

*Professor of Active Implantable
Medical Devices (AIMD)
Director, MAISI Facility
School of Biomedical Engineering
& Imaging Sciences
King's College London
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INTRODUCTION: WHAT IS NEUROTECHNOLOGY?

HARRY LAMBERT

REIMAGINING THE TREATMENT OF PARALYSIS: THE PROMISE OF BRAIN-COMPUTER INTERFACES

DR. JAMIE BRANNIGAN

This talk will begin with an introduction to implantable brain computer interfaces (BCIs). A discussion of the proposed clinical benefits of implantable BCIs and the limitations evident in current studies will be explored before an analysis of those patient populations who may benefit from these devices in the near future

WHY PATIENTS DON'T BENEFIT YET? BARRIERS TO WIDESPREAD AVAILABILITY OF IMPLANTABLE NEUROTECH

PROFESSOR ANNE VANHOESTENBERGHE

This talk follows Jamie Brannigan's talk on the promises of BCI for the treatment of paralysis. As we acknowledge both the need for, and the potential benefits of BCIs, and implantable neurotechnology in general, why then are they not more widely used?

Building on examples of new and established implantable technologies, and the timelines of the companies that provide them, I will invite the audience to join me in considering a few elements of answer. We will review both the technological standpoint (miniaturisation, connectivity, implantability, reliability) as well as other, sometimes overlooked barriers, including patient and clinical needs and preferences, access to sustained funding/investment, regulatory affairs (UKCA, CE and FDA) and quality management, clinical evidence (safety, efficacy), integration with established care pathways and reimbursement frameworks (NHS, Insurance,...), and translation to the community.

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HARRY LAMBERT

Barrister, Coroner and Founder of the INL

Harry Lambert is the Founder and Head of the Institute of Neurotechnology and Law.

He is a Cambridge graduate and barrister practising in the fields of product liability, medical law, privacy, human rights and emerging tech. He also sits as a Coroner in Inner North London, covering Camden, Islington, Tower Hamlets and Hackney. As counsel he is recognised as a leading junior in the directories and in recent years has been involved in some of the most high profile and heavyweight litigation in the field.

Harry enjoys very high quality instructions including, in 2023, a claim involving a very prominent member of the Royal Family and acting as standing counsel to one of the world's largest oil companies on human rights issues in a particular region.

Over the years Harry's professional clients have included amongst others Linklaters, Clifford Chance and Simmons & Simmons, whilst recent lay clients come from those in the Oil, Gas, E-cigarette, Home Electronics, Healthcare Equipment, and White Goods sectors.

His aim, in short, is to combine excellence with approachability; intellectual rigour with a down-to-earth attitude and common sense.

He provides advice with meticulous detail ("a very detailed and focused counsel, who never misses a trick" - Legal 500) but if matters go to trial "Harry is a fierce advocate who is able to think outside the box" (Chambers & Partners 2023) and who "fights his corner hard" (Chambers & Partners 2021).

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DR. JAMIE BRANNIGAN

Clinician Scientist, University of Oxford

Jamie is an academic foundation doctor, training at Oxford University Hospitals. He undertakes neurotechnology research at the University of Oxford, and at University College London as an honorary research fellow. Prior to his work in Oxford, Jamie completed an undergraduate degree in neuroscience at the University of Cambridge, alongside his clinical medical training.

His work focuses on implantable brain-computer interfaces to restore function in motor impairment. Specifically, he works to decode motor intentions from brain data, whilst also working to understand brain-computer interface patient preferences, developing novel outcome metrics, and performing neuroimaging studies to aid device implantation. Jamie also has experience in industry, primarily through an ongoing collaboration with Synchron (New York). Through this work, he has first-hand understanding of the pressing challenges faced in the regulation of implantable brain-computer interfaces.



PROFESSOR ANNE VANHOESTENBERGHE

Professor of Active Implantable Medical Devices (AIMD)

Director, MAISI Facility, School of Biomedical Engineering & Imaging Sciences, King's College London

London Institute of Healthcare Engineering - LIHE

Anne is Professor of Active Implantable Medical Devices (AIMD) at King's College London, and Director of MAISI, a national facility for the manufacture of active implants and surgical instruments, embedded within St Thomas' MedTech Hub in London. Her research at KCL is in the field of neurotechnologies, specifically technological innovations for the manufacture of implantable electronics, with an interest in their interactions with the (human) nervous system. She is increasingly involved in supporting the translation of research and devices from the lab to their first use in human, to improve the quality of life of people living with unmet medical needs.

Anne trained as an engineer in Belgium (ULB) and the Netherlands (TUEindhoven), completed her PhD at UCL, and worked in Germany (IMTEK, Freiburg) and Australia (UNSW, Sydney) before joining KCL. She has been an active member of the International Microelectronics Assembly and Packaging Society (IMAPS-UK) since 2012.

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A pioneering research and advocacy centre dedicated to exploring the intersection of neuroscience and legal standards. Established with the vision to foster a deeper understanding of how technological advancements in neuroscience can inform and transform legal practices, INL strives to bridge the gap between these two critical fields.

*- Launched in May 2024
by Harry Lambert.*

"The World is about to change.

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