

Ethics in Neurotechnological Innovation

A MIME and MICCN Symposium

Tuesday, 1 May 2018, 1.00 – 5.30 pm

Monash University, New Horizons, 20 Research Way, Level 4 Collaboration Lounge

RSVP Tuesday, 24 April 2018 to Adrian Carter adrian.carter@monash.edu

Synopsis

Brain science is experiencing a boom. Global brain initiatives (e.g. US BRAIN Initiative, EU Human Brain Project) are investing billions of dollars into neuroscience R&D. The global neurotechnology market will reach US\$12 billion by 2020 with Elon Musk, *Facebook*, *IBM* and *Google* entering the neuromarket. These technologies may transform our health, workforce, and how we learn and age. The ability to monitor and manipulate brain and behaviour raises significant ethical, legal and social issues, such as: privacy; agency, identity and moral responsibility; and the regulation of commercial devices. It is important that we consider these important issues throughout the R&D of emerging neurotechnologies if we are to realise their potential. This symposium will highlight neurotechnologies being developed in Australia and research being done to meet the ethical, social and legal issues that they raise.

Symposium – Distinguished Lecture

Professor Judy Illes (University of British Columbia):

An Imperative for Neuroethics on the Landscape of Modern Neurotechnology

Judy Illes is Professor of Neurology and Canada Research Chair in Neuroethics at the University of British Columbia (UBC). She is the Director of Neuroethics Canada, established in 2007 at UBC, Vice Chair of the Standing Committee on Ethics of the Canadian Institutes of Health Research (CIHR), and Vice Chair of the Internal Advisory Board of the Institute for Neuroscience, Mental and Addiction of CIHR. Dr. Illes is Immediate Past President of the International Neuroethics Society, and a Board Member of the International Brain Research Organization. She is an elected Fellow of the Royal Society of Canada (Life Sciences), of the Canadian Academy of Health Sciences, of the American Association for the Advancement of Science (Neuroscience). Prof Illes was appointed to the Order of Canada in 2017.



Interdisciplinary Speakers:

Prof Arthur Lowery (Monash Institute of Medical Engineering)

Monash Vision Group's Brain-Machine Interface: A practical benchmark

Prof Paul Fitzgerald (Monash Alfred Psychiatry Research Centre)

Brain Stimulation: A new wave of therapies for Psychiatric Disorders

Prof Robert Sparrow (Philosophy, Monash)

Windows Brain '98: What could possibly go wrong?

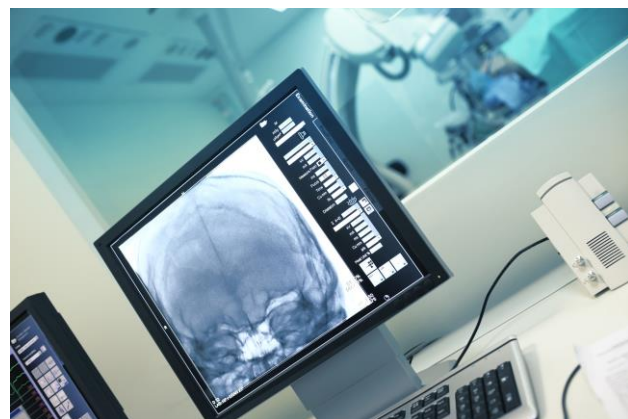
Dr Frederic Gilbert (Neuroethics, University of Tasmania)

Implantable Brain Computer Interfaces: Exploring Estrangement and Embodiment

Prof Anne-Maree Farrell (Health Law, La Trobe)

Regulating Consumer Use of Transcranial Direct Current Stimulation (tDCS) Devices? Ethical, Safety and Legal Issue

The symposium will conclude with a Q&A with the panel.



Canapés and drinks will follow the event.

This is an initiative of the Australian Neuroethics Network