

BioMusic

Peninsula Arts Contemporary Music Festival 2015
Plymouth University, UK

Symposium: Interfacing Brain, Music, and Emotions

Date: Friday 27 February

Venue: Room 605, Rolle Building, on James Street, City Centre Campus

FREE, but with limited availability of space. **Registration required.**

Please refer to PACMF's website for link to registration with Evenbrite:
www.pacmf.co.uk

A brain-computer interface is a system that enables one to control devices, such as a wheelchair, artificial limbs or a musical instrument, using brain signals detected by means of sensors. This symposium is aimed at discussing the state of the art in field of brain-computer music interfacing abbreviated as BCMI. Scientists from the EPSRC-funded project 'Brain-Computer Music Interface for Monitoring and Inducing Affective States' join musicians and invited experts to review methods for analysis and monitoring of bio-information associated to emotions, and techniques for generating music with a BCMI system aimed at inducing specific emotions on listeners.

Programme

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| 10:00 – 10:15 | Arrival and welcoming
Prof Eduardo Miranda (Plymouth University) |
| 10:15 – 10:45 | <i>An introduction to Brain-Computer Music Interfacing (BCMI) research</i>
Prof Eduardo Miranda (Plymouth University) |
| 10:45 – 11:15 | <i>What happens in your brain when fast music excites you?</i>
Mr Asad Malik (University of Reading) |
| 11:15 – 11:45 | <i>An implicit pictorial report of affective states</i>
Mr James Weaver (University of Reading) |
| 11:45 – 12:15 | <i>Investigating music tempo as a feedback mechanism for closed-loop BCI control</i>
Dr Faustina Hwang (University of Reading) |
| 12:15 – 13:30 | Lunch break |

- 13:30 – 14:00 *Towards emotionally driven music creation via a Brain-Computer Music Interface (BCMI)*
Dr Duncan Williams (Plymouth University)
- 14:00 – 14:30 *Many Worlds: a bio-controlled interactive film*
Dr Alexis Kirke (Plymouth University)
- 14:30 – 15:00 *Joybeat: a hybrid brain-computer music interface*
Dr Joel Eaton (Plymouth University)
- 15:00 – 15:30 Demonstration: *Joybeat system*
Vimeo movie: <https://vimeo.com/113163488>