



National Centre  
for the Replacement  
Refinement & Reduction  
of Animals in Research



# Measuring Animal Emotion

0930-1500 on Tuesday 12<sup>th</sup> July 2016

Music Hall, Assembly Rooms, 54 George Street, Edinburgh, EH2 2LR

Organisers: Liz Paul & Mike Mendl, University of Bristol



The aim of this satellite workshop is to present a state-of-the-art overview of methods for measuring animal emotion in applied ethology and animal welfare research.

A plenary talk will be accompanied by a series of short 'how-to' talks focusing on the latest developments, practical advice, and strengths and weaknesses of different methods and approaches. Presenters will be experts in a range of experimental methods and techniques, and the aim of the workshop will be to encourage an increased understanding and advancement of this field. Posters are also welcome.

The workshop is open to all ISAE delegates and we welcome the participation of academic researchers and students, public sector, NGOs and commercial private sector representatives.

Cost: £18 (includes registration, tea/coffee and light lunch)

Funding support for the workshop is provided by NC3Rs

To register, go to the ISAE 2016 Congress website registration page:

<http://www.isae2016.co.uk/index.php/registration/4-registration>

Create an account if necessary, and follow the registration process.

You can register for both ISAE 2016 and 'Measuring Animal Emotion'. If you only want to register for 'Measuring Animal Emotion', enter your personal details and navigate through the form to the workshop page.

## Provisional programme

09.30 a.m. TEA & COFFEE

10.00 a.m. Welcome and introduction (Liz Paul)

10.15 a.m. **Plenary talk:** Ádám Miklósi “Emotions, emotional states, emotion-induced behaviour – what we can measure and what does this mean?”

11.00 a.m. **Methods for measuring animals’ emotional states (part 1)**

11.00 Georgia Mason “Refining the use of a long-established measure: glucocorticoid release”

11.15 Matt Leach “Use of facial expressions as markers of emotion”

11.30 Annika Krause “Implantable transmitters for measuring both branches of the autonomic nervous system to describe affective reactions in domestic pigs”

11.45 Suzanne Held “Play as a measure of positive emotion?”

12.00 Mike Mendl “Judgement bias as an indicator of affective valence in animals”

12.15 p.m. LIGHT LUNCH AND POSTERS

1.00 p.m. **Methods for measuring animals’ emotional states (part 2)**

1.00 Françoise Wemelsfelder “Feeling is a verb: The qualitative behavioural assessment of animal emotion”

1.15 Luigi Baciadonna “Expression and perception of emotions using goats as a model”

1.30 Carole Fureix “Using anhedonia to measure negative affective states in non-human animals”

1.45 Becca Franks “The promise and pitfalls of assessing emotional state with curiosity and exploration tests”

2.00 Lorenz Gygax “Measuring brain activity non-invasively using near-infrared spectroscopy”

2.15 p.m. **Panel Discussion** (all speakers will be available for a Q&A session)

3.00 p.m. FINISH