SHOWCASE 2014

Awards Ceremony

The University of Leeds Postgraduate Research Conference
SHOWCASE 2014

Postgraduate Research Image of the Year
SHOWCASE 2014

Research Image

2nd Place
Misunderstood?
SHOWCASE 2014

Research Image

1st Place
Fraser Macrae

The Clot Thickens
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Postgraduate Research Poster of the Year
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Research Poster
3rd Place
1. Why the feeling of food texture matters?
Texture is the feeling we get when we interact with the food. It is very important for consumer preference and also to decide if we like the food or not.

To like or not to like: that is the question...
If the texture of a product is favourable we will keep on consuming, but if not we will have negative impact that can end up with full rejection.

2. Who cares about texture?
- Food Industry
  - Product formulation
  - Quality control
- Vulnerable people
  - Elderly
  - Baby
  - Disabled
- Food consumers

3. Aims
The aim of this project was to find the most sensitive part of our body to feel the food texture to improve the available texture assessment techniques.

4. Method: Human study
Texture feeling capabilities were tested with jelly food samples with 60 people, using their finger and tongue. The question they need to answer was if the two jelly, feels the same or different in terms of texture. The information obtained revealed the minimum sensitivity of human to the texture of the food.

5. Findings to take home
Tongue found to be more sensitive than the fingertips when it comes to texture feeling.

6. Impact
By understanding how food texture is sensed, we can improve the available techniques to produce more practical and reliable texture which will provide:
- Safer, desirable, more nutritional foods to all consumer groups
- Flexibility and higher profits for the food industry during food product design and quality control.
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Research Poster
2nd Place
Absorbing Lives
Attitudes of women experiencing urine leakage

Amy Hunter - hcaeh@leeds.ac.uk
Andrea Nelson, Elaine McNicol, Steve Russell and Parik Goswami

Do you know her?
Around 4 in 10 women might experience urine leakage.
Many of these women will not access healthcare. Instead, they rely on their own coping strategies.

So what?
There is opportunity to advance products and services.
My study will inform health services and textile companies. It will help them to meet women’s needs and expectations more effectively.

What’s the issue?
There are consequences to coping with urine leakage alone.
Fear of detection is a common worry. Adapting routines, activities and relationships helps avoid this, but comes at a personal cost.

Aims
Characterise women’s attitudes to their experience of urine leakage
Understand the use of absorbent textiles for containing leaked urine

Term Time
The language used to describe urine leakage is important.
Women rarely consider themselves to be incontinent. Medical language does not make sense to all women. Using more acceptable terms will improve the study.

Pad Strategy
Using absorbent textiles (pads) hides the problem.
Pads allow women to manage leakage without help or intervention. There is little data regarding women’s day-to-day use of pads.

Speaking Up
Leakage is embarrassing. Women aren’t keen to discuss it.
Understanding why there are difficulties in talking about leakage has improved the study aims and recruitment strategy already.

Kindly sponsored by
The Worshipful Company of Woollenworkers
Bubbles for Cancer
Improving delivery of anti-cancer drugs using microbubbles.

Laura McVeigh, Leeds Institute of Biomedical & Clinical Sciences, University of Leeds, UK

3RD
90% of cases are diagnosed in the 50+ age group

A new drug delivery method to target bowel cancer
- Optimise drug delivery to the tumour
- Use potent anti-cancer drugs
- Avoid harmful side effects
- Reduce tumour size

Putting together the components for drug delivery using microbubbles
Tiny, gas-filled bubbles + Anti-cancer drug + Targeting to the tumour = Drug loaded, targeted microbubbles

Once the microbubbles are injected into the blood stream, a pulse of ultrasound ‘pops’ them, delivering the anti-cancer drug directly to the tumour

Our microbubble based delivery system has successfully delivered drug to tumours

Microbubble drug delivery has great potential to improve both quality of life & overall life expectancy for bowel cancer patients

The efficiency of this method allowed a greatly reduced amount to be administered, eliminating side effects whilst still achieving an effective dose

Bubbles for disease? Our drug delivery system could be equally applicable to a variety of disease areas, not only cancer.
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Three Minute Thesis
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TMT
3rd
Lesley Ellis
Ella Holdsworth
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TMT

2nd

Nick Tasker
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TMT
1st
Mike Jestico
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Postgraduate Researcher of the Year 2014
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Postgraduate Researcher of the Year
Joint 3rd
Nik Edwards
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Postgraduate Researcher of the Year
Joint 3rd
Felicity Edwards
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Postgraduate Researcher of the Year 2nd

Joanna Elvy

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Celebrating Excellence in Postgraduate Research
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University of Leeds
Postgraduate Researcher of the Year 2014
1st
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University of Leeds
Postgraduate Researcher of the Year 2014

Gemma Gossedge