

SUSTAINABILITY NEWSLETTER



Loughborough University

September 2016



/Sustainability at lboro



@SustainLboro

www.lboro.ac.uk/sustainability



National Cycle to Work Day

Cycle to Work Day is a national event, which aims to encourage everyone to take to two wheels and cycle to work for just one day. It's on 14th September this year, and you can pledge your miles by visiting www.CycleToWorkDay.org.

There's the chance to win some fantastic prizes too:

Pledge now to ride on the day at www.CycletoWorkDay.org and be automatically entered to win one of three Merida bikes and other bike goodies.

Ride onto campus and pick up a voucher for a free breakfast at one of the University catering outlets.

Last but not least, share a photo of you on your bike on 14th September using the **#CycleToWorkDay** and **#Sustainlboro** and be in with a chance of winning 1 of 3 cycle bundles including, bike lights, pump and a high vis jacket.

Don't forget, cycling to work is great for your health, saves you money on travel and is a great way to de-stress at the end of a long day! If you don't normally cycle, why not hit the streets on September 14th feeling safe in the knowledge that you'll be one of thousands experimenting with 2 wheels and riding to work that day!

Loughborough Gold

The campus apiary is home to over 250,000 bees and after 3 years of love and care our busy little bees have made enough honey for us to be able to sell.

On **Monday 19th September** we are selling the honey on the Hazlerigg and Rutland Buildings lawn (near the fountain).

Why not pop down and pick up your very own Loughborough Gold?

All the money made from the sales will be invested in development of the apiary and training.



SmartGO Loughborough

SmartGO Launch Events

SmartGO Loughborough offers a package of transport incentives and discounts aimed to encourage more environmentally-friendly methods of travel. With offers available from companies such as Halfords, East Midlands Trains and Arriva, there are ways for everyone to save money on their travel

Want to find out more??

We will be showcasing all the great benefits to staff on September 12th & 14th. Confirmed stalls include Halfords Cycle to Work Team, East Midlands Trains, SmartGO and Nissan. Come down a trial the new Nissan Leafs around campus.

Tuesday 13th September
Shirley Pearce Square 11-2pm

Thursday 15th September
West Park Teaching Hub 11-2pm

Could you have a greener cuppa

Did you know...? 1million disposable cups are used each year on our campus (paper and plastic)



- Each year the UK uses 2.5bn paper cups, that's almost 5,000 cups being discarded every minute
- These cups have to be made from raw materials rather than recycled paper for hygiene reasons
- The polyurethane lining means they cannot be recycled with other paper or cardboard.
- They CAN be recycled BUT only if collected separately

How can you have a greener cuppa?

If every member of staff used 5 less paper cups per year we would save 100,000 cups!

Dinking In? Choose a mug over a disposable cup; this will be available in some of the larger catering outlets

Recycle your disposable cup. We will be introducing special cup bins in key locations towards the end of September. Please use these for paper cups only and ensure all liquid is removed from the cup first.

Coming soon... 'The Loughborough Cup... Another Inspiring Winner!' Keep your eyes peeled for this new reusable cup scheme and associated offers.





Harvesting Events

The Harvest Events will take place on the 14th 15th October, concluding with the Apple bake off, held on the Saturday 15th October. Categories this year will include...

- Sweet bake
- Savoury bake
- Jams, preserves and chutneys

Entries are open to anyone on campus, families, friends and community members.

Harvesting across campus will take place at lunchtimes on the 3rd, 5th, 6th and 13th October, the locations will be confirmed nearer the time.

Environmental Assistant

Meet Tasha, Our new Environmental Assistant for 2016/17

“ I’m Tasha the new Environmental Assistant for the coming academic year (2016/17). I have taken over from Amie – although she is coming back for her final year of study so hopefully we will see her around. I graduated from Loughborough University in 2016 with a BSc (Hons) in Geography and I have always had an interest in environmental sustainability. I am excited to join the sustainability team because it is evident that they are as enthusiastic as am and I know I have a brilliant opportunity to learn and gain new skills. I will be working with individuals and groups across both the campus and the wider community to drive a constant improvement in campus sustainability and increase student participation in the University’s sustainability agenda. This will be done through the University’s Green League; an inter-hall competition that aims to encourage recycling, reduce energy consumption and promote positive sustainable behaviours. An increased participation will be achieved through a variety of student engagement activities and the use of social media to reach out to as many students as possible. ”



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www.lboro.ac.uk/sustainability

Twitter @Sustainlboro
Facebook @EnvironmentLeague
@Sustainable Lboro

Don't forget to visit the website <http://www.lboro.ac.uk/sustainability/>
Or follow us on Facebook /[Sustainability at Lboro](https://www.facebook.com/SustainabilityatLboro) & [Twitter SustainLboro](https://twitter.com/SustainLboro)

Designing a Sustainable Future

Taken from the Wolfson School of Mechanical, Electrical and Manufacturing Engineering 'Engineering Designers 2016' brochure we have selected two sustainability minded products to feature in this month's newsletter.

Anna-Maria Gosso

Brief – Design a product that targets consumer water wastage within the home.

With water becoming increasingly scarce, there is an urgent need to develop commercially viable sustainable products. The average person in the UK uses approximately 150 litres of water a day through various everyday activities such as washing up etc. With the introduction of technology that makes hot water readily available, consumer perception has now been altered to view hot water as an unlimited resource.

Ways to improve water efficiency as well as the conservation of water needs to be identified within the home, specifically within the shower environment, to reduce water usage as an attempt to improve the current water situation.

Behavioural waste is also a massive factor in wasted water as users: leave the hot water running, they are unaware of their usage and have showers with high flow rates.

After many comparisons, the shower mat was selected with the integration of a time monitoring system as well as temperature indicators, selected from other designs. The final shower mat will warn consumers when the shower is ready, monitor their time whilst showering, as well as coercing them to leave when the allocated time was up.



Water, Efficient, Timer

Efficient

The **Water, Efficient, Timer** will reduce the length of your shower to **under 5 minutes** from the current average of 9 minutes!

Not only will this save:

- Over 250kg of CO₂ emissions.
- But over **£150** a year!

If that wasn't incentive enough, cutting your shower time could gain you an extra **70 hours** in bed every year.

Sustainable

Not only is the **Timer** efficient, it is powered by the **water flow** of the shower.

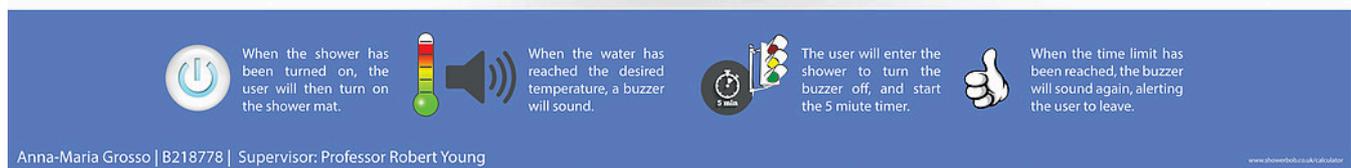
This means...

- No harmful batteries
- No extra energy is needed for it to work
- Never running out of charge

Interactive

The **Water, Efficient, Timer** makes your shower exciting for all ages with **coloured lights** and alarms.

Knowing exactly when your water has **reached temperature**, the **Timer** also keeps you informed of how long you have spent in the shower and how long you have left.



When the shower has been turned on, the user will then turn on the shower mat.

When the water has reached the desired temperature, a buzzer will sound.

The user will enter the shower to turn the buzzer off, and start the 5 minute timer.

When the time limit has been reached, the buzzer will sound again, alerting the user to leave.

Anna-Maria Gosso | B218778 | Supervisor: Professor Robert Young

www.showertobesustainable.com

Georg Volwahren

Brief – Design an innovative domestic cleaning tool which improves the cleaning process through mechanical vibration.

Based on the principle of cavitation due to ultrasonic vibration the product enhances and enables powerful and detergent free cleaning whilst reducing users' effort to a minimum. With a wand like design the cleaning of complex, fragile and odd shaped articles can be performed.

In order to start the cleaning process with the final ultrasonic cleaner, the wand has to be submersed under water in a vessel, i.e. cleaning the inside of a kettle or cleaning in a tank, i.e. a sink or bucket.

The cleaner can be hooked over the side of the rim of a vessel and no further action would be required. The ultrasonic cleaning aid could be used as a standalone product or in conjunction with other cleaning facilities to enhance their functionality.



For more information about the Wolfson School of Mechanical, Electrical and Manufacturing Engineering please visit their website

<http://www.lboro.ac.uk/departments/meme/>