



Foreword from the Principal

After a successful launch in 2009, the Greenbuild Expo returns to Manchester in May 2010 with twice the number of exhibitors. This event is really helping to put Manchester on the map as a key centre for promoting and sharing best practice in sustainability.

The Expo, which focuses on green building products, renewable technologies and sustainable development, will reinforce the work Manchester City Council is carrying out to stimulate support for its Collective Action on Climate Change initiative and will enable us to showcase our own achievements in sustainable development.

The college will have a stand at the event which will promote our three latest accommodation projects - Wythenshawe Campus, Fielden Campus and North Manchester Sixth Form College Phase 2. It is a testament to how far we have come in the last few years that we will be in a position to share the expertise we've developed from these projects with the construction industry.

We'll also be asking visitors what their education and training needs are and how we can help fulfil them. Whether it's through our existing courses, or the development of a new curriculum, we hope to take a lead role in the field of sustainability training in the region.

The importance of training and education cannot be overemphasised, which is why in this issue of Go Green it's great to see that even our Early Learners are being encouraged to take an interest in sustainability and ecology.

As an organisation we're still learning ourselves, with fascinating figures informing the investments we'll be making in the future to improve our carbon footprint. Recent statistics regarding our energy savings and waste recycling serve to show that our work is paying off and we want all our staff and students to take pride in the contribution they've made to the process.

Peter Tavernor

Peter Tavernor

Early learners catch the worm

Early Learners at the Openshaw Nursery have been developing their green fingers and getting to know their local wildlife with a range of activities developed by the college's nursery staff.



Early learners keep their plants in peak condition.

Nursery officer Kerin Angelucci came up with the idea of growing plants that would yield fresh fruit and vegetables that the children could eat raw. With the help of nursery officer Sabeena Levy, she set the children off creating containers and sowing seeds for a range of plants, including radishes, carrots, tomatoes, kiwis, raspberries, strawberries, beetroot and edible flowers. The new plant life has had the added benefit of encouraging wildlife into the garden area.

Senior childcare officer, Amanda Wright, has also contributed to the children's recent interest in all things green by distributing three logs around the nursery garden to encourage insect life. The logs are turned over every other day so that the children can

see what's taken up habitat in the dark damp spaces underneath. Magnifying devices have also been purchased so that the children can examine the insect life under close inspection.

The nursery staff would like to thank the college's gardener, Derick Kinder, and his team for all the advice and resources they provided to support the project.



ANY COMMENTS, QUERIES OR GREEN IDEAS,
please contact your local Campus Green Champion group

- Openshaw - Graham Hanifan, St John's - Gary Buttriss-Holt, Moston & St Matthew's - Larry Wilde, OCP - Steve Beesley, Northenden - Eileen Edmondson, Nicholls - Sarfraz Malik, Shena Simon - Eve Roberts, with general queries to Ian Nuttall, Head of Campus Management.

College is exemplar for energy efficiency

The college has received its first Display Energy Certificates (DECs) from Manchester City Council for four campuses, and collectively they paint a very positive picture about energy efficiency across the board.

DECs are designed to show the actual energy usage of a building and help the public see how energy efficient it is on a scale of 0 to 150, with 0 being the best rating possible. The typical operational performance rating for buildings like those in the college estate is 100, which falls into Category D (Category A is the most efficient).

The Manchester College, however, has received an impressive four ratings in Category C (51-75). Out of 196 organisations in Manchester which have so far been assessed under the DEC scheme, only 16 have come under Category C, none under Category B and only the Velodrome is classed as a Category A building.

This is fantastic news as it means that the college is in the top 9% of the most energy efficient buildings in Manchester (out of those which have participated in the scheme). Plus, some of the buildings only narrowly missed out on a B rating (26-50).

Here is a breakdown of the results:

Moston Campus -	53
St John's Centre -	60
Nicholls Campus -	67
North Manchester Sixth Form College -	72

It is expected that the new zero carbon construction centre at the Wythenshawe Campus will be a Category A building and that the rest of the campus will be assessed as Category B, along with the refurbished Fielden Campus. The Moston Campus is also likely to fall under Category B in the next annual assessment following the installation of a new boiler system.



Larry Wilde, head of centre at the Moston Campus, is pleased with the building's performance.

powerPerfector savings

Five powerPerfector units are now in operation across the college's estate and early results from the first one to be installed show that they are already having a dramatic impact on energy savings.

powerPerfector is the only voltage power optimisation technology in the world. It optimises voltage by dealing with the discrepancy between actual supply voltage (207V-253V) and the optimum voltage required by electrical equipment (220V). This cuts energy use and carbon emissions by up to 20%, prolonging the life and reliability of all electrical equipment.

In the three month period following its installation at the Nicholls Campus on 12 December 2009, the powerPerfector optimised the average electricity consumption within the building by 7.5%.

This is likely to result in a projected annual emissions saving of 17,000kg of carbon dioxide, which equates to the energy required to make 1,077,448 cups of tea!

These savings show that the college is likely to see a return on investment in just 81 months rather than 143 months, as originally predicted, which is great news.



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Waste recycling better than ever

According to a report from JWS Waste and Recycling Services Ltd, the college is getting better and better at recycling its general waste.

Approximately 85% is now being recycled which is an enormous improvement on the 50% figure from two years ago. The report shows that in a given three month period the college is making a 187 tonne saving in carbon which is a staggering amount.

Food waste is now particularly low, which is not surprising considering the college's catering staff are undergoing training in how to manage stock and control food production responsibly. There may be a few remaining ways of improving the disposal of waste, for example through separation and composting, but food waste across the college is minimal.

Here is a typical breakdown of what happens to general waste once it is collected from the college.

General waste destinations:

- 24% recycled aggregates
- 30% soil forming
- 9% wood products (board mills/animal bedding)
- 10% compost material
- 1% ferrous and non-ferrous material
- 2% plasterboard (gypsum manufacture)
- 1% dry recyculate (paper, cardboard, textiles)
- 8% waste to energy
- 15% residual landfill



Green commuters from L-R: Anne Bourner, Lee Andrews and Nicola Breach.

Cycle to work scheme

Since it was introduced just a few months ago, the college's new Cycle ATWORK™ scheme has facilitated the loan of brand new bicycles for 38 members of staff.

Through the scheme you get the chance to use a bike on loan over a 12 month period. You will have full use of the bike and cycle equipment, but you do not own it for the duration of the scheme. At the end of the 12 months you may have the option to buy the bike for its fair market value at that time, eg £20 (plus VAT) or 3% of the RRP, whichever is greater.

For Nicola Breach, divisional leader of art and design, getting a bike has been a great experience, 'I use my bike to commute to college and also to travel between campuses. I feel happier when I walk through the door now, full of beans! When I got my bike and realised how good it was I wanted to do something else with it, now I have booked myself in to do a mountain bike skills course.'

Anne Bourner, Director of Creative Industries, is enjoying cycling to work, 'I use my bike for getting to college and it's a great way to commute, a real stress buster. The scheme is proving popular at the Shena Simon Campus; all the bike sheds are now filling up. People shouldn't be scared of cycling on the Manchester roads, it is fine, and if I do get a bit scared I get off and push.'

If you missed out last time, don't worry, an election period is running from 17th May-28th May. For more information on the Cycle AT WORK™ scheme call HR on 0161 953 2249.

GREEN CHAMPIONS NEEDED

The college is on the lookout for new volunteers to become part of its highly successful Green Champions network.

The existing groups on each site have already done much good work since they were set up two years ago, but they are looking for fresh ideas from people who are committed to reducing the college's carbon footprint.

In the past, the Green Champions have come up with and helped implement a wide range of green initiatives and activities, from the bicycle library scheme to group bike rides and DVD viewings, to name just a few.

If you would like to be part of your campus' Green Champions group, contact your site representative for details of the next meeting (see front cover for details).

