

Network

Architecture, Design and the Built Environment Supplement

Nottingham Trent University Alumni Association



Welcome

It's been another busy year for the School of Architecture, Design and the Built Environment. We've seen our students receive many awards and accolades, and our academics continue to work closely with industry and professional bodies on live projects, conferences and research.

The School has now settled into its new surroundings; the superbly redeveloped Arkwright building which houses our undergraduate architecture students and our postgraduate students. The University continues to invest in its City site estate with the new Students' Union – on the former Byron House site. We're extremely pleased that a number of the School's current students and graduates are working on the site project with the NTU Estates Department and construction company, VINCI. The redevelopment is scheduled to be finished in 2013.

We work very closely with industry through live projects, student placements, collaborative projects, continuing professional development in learning, short-courses, research and consultancy. With a large network of contacts, there are great opportunities for small and large organisations to engage with Nottingham Trent University and other businesses. Why not get in touch with us to see how we can work together.

Peter Westland

Dean of the School of Architecture, Design and the Built Environment

Leading the way

A successful year for Product Design students as they win a number of top national awards.

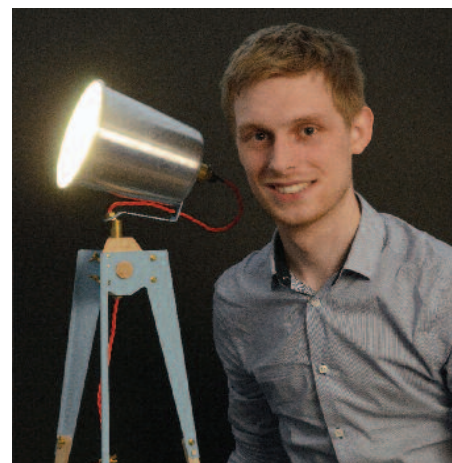
Exhibiting at New Designers at the Business Design Centre is the culmination of years of hard work for many of our Product Design students and walking away from the prestigious event with a prize is a perfect end to a designer's time spent at university. BA (Hons) Furniture and Product Design students Craig Foster and Oliver Hruibak were able to do exactly that. Craig was named the Business Design Centre's New Designer of the Year for 'Kurk', his innovative flat-pack self-assembly lamp. The environmentally friendly light is made from cork and requires no glue or screws to assemble, each part can also be recycled or reused individually when no longer needed as a light. Oliver was awarded the John Lewis Award for his domestic lounge chair 'Finn'.

BA (Hons) Furniture and Product Design students are building on their success year-on-year at the Lighting Association Student Lighting Awards where, this year, five out of the 11 finalists were from NTU. Five of the six top prizes went to our students with Oliver and Craig excelling again in first and second place. Third prize went to Stephanie Casse whilst Kiuyu Ho and Jack Hamon were Highly Commended. Oliver's 'Frank' lamp (pictured right) secured him £1,500 prize money and the chance to exhibit at the NEC. It also caught the eye of *New Design* magazine who used it on their front cover in July.

It was also an NTU first and second at The Power of Aluminium Extrusion in Design Awards 2012. The competition, which is hosted by

ALFED; the Aluminium Federation, encourages investigation of the properties of aluminium and highlights the benefits of designing with extruded aluminium sections. BSc (Hons) Product Design students Tom Brittain and Phillip Riley attended an awards ceremony at The House of Lords where Baroness Gardner of Parkes presented Tom with first place for his modular shelving system design, whilst Phillip picked up second place for a lightweight trailer concept.

Second Year BA (Hons) Furniture and Product Design student Jamie Mansfield beat 273 other applicants to win the Design Innovation in Plastics Awards 2012. To answer a brief that called for a product that would help those with physical or cognitive impairments whilst also having a mass market appeal, Jamie designed a flexible flat-pack clothes hanger. Find out more about the opportunities Jamie's competition win opened up on page 04.



Contact your Alumni Association on

Tel: +44 (0)115 848 8777 | Email: alumni@ntu.ac.uk | www.ntualumni.org.uk

NOTTINGHAM
TRENT UNIVERSITY





Building Byron

Current students and alumni from the School of Architecture, Design and the Built Environment are playing a big part in the redevelopment of Byron House, the home of NTU's Students' Union.

Several students – past and present – from our Construction Management, Quantity Surveying and Construction Commercial Management and Civil Engineering courses are working on an interdisciplinary basis to help deliver this multimillion-pound transformation.

The joint venture with Universities Partnerships Programme (UPP) is based on our students' vision for the new Byron House and will provide 5,500 square metres of social, leisure and well-being facilities, plus living accommodation. Facilities will

include a sports hall, entertainment area, fitness studio, shop, bars, social space and health centre. The sports hall will meet Sport England standards and the fitness studio will have approximately 100 stations.

Alumnus Dean Short (BSc Hons Construction Management 2005) works for VINCI and is a Site Manager on the scheme. Dean (pictured above) said: "No two days are the same. As we are in a confined city, it's been really interesting delivering a project where the site constraints are very tough."

RIBA and ARB Part 2 validation for the MArch Architecture

The MArch course, which is in its third year, has now been validated by the Royal Institute of British Architects (RIBA) to provide exemption from the part two examinations. It is also fully prescribed by the Architects Registration Board (ARB) for the purposes of entry onto the UK register of Architects.

The validation means that the course complies with internationally recognised minimum standards in architectural education and encourages excellence and diversity in student achievement.

If you completed the BArch Architecture at NTU and would be interested in progressing on to the MArch visit www.ntu.ac.uk/adbe-courses

Real-life learning

Students gain insight into working with real design briefs and to real deadlines.

Second year students from the School of Architecture, Design and the Built Environment and the School of Art & Design recently had the chance to work on a design brief set by Paul Smith.

BA (Hons) Product Design and BA (Hons) Furniture and Product Design students were set the task of designing a new piece of retail furniture for inside the Paul Smith store; from a shoe mirror to a hanging tie system. First prize was awarded to BA (Hons) Furniture and Product Design student Rebecca Ransom who designed a hook to go inside the in-store changing rooms.

...Sir Paul was pleased to see a good balance between drawing and computer work and actual practical models...

The company commented afterwards: "The students showed an enterprising spirit and Sir Paul was pleased to see a good balance between drawing and computer work and actual practical models. He thought they had shown an understanding of the spirit of Paul Smith, the use of the unexpected, use of colour and of mixing materials."

The competition winners and runners-up had the chance to travel to London to meet Sir Paul, with a guided tour of the design studios and shop. The winner also got the opportunity to work as an intern during the summer, alongside a £250 voucher for Paul Smith stores.



School maintains strong links with FITCH

Every year Design consultancy FITCH compiles a project brief for second year BA (Hons) Interior Architecture and Design students. This year alumna Elise Rowland (BA Hons Interior Architecture and Design 2008), Designer with FITCH, returned to NTU to advise the students. Elise completed her placement year at FITCH, was offered a contract on graduation, and has been there ever since.

This year's brief asked students to create a physical space for a company that has a largely virtual presence. They were tasked with looking at the online brand and translating it into an immersive environment and physical experience. The project is used by FITCH as a job interview to choose placement students for the following year.

Real briefs and real deadlines for Planning and Development students

Our BSc (Hons) Planning and Development students have recently worked with a host of industry partners:

- Rolls-Royce and their development partner MUSE in connection with a proposed redevelopment of a large factory and airfield site.
- Development company St Mowden on the redevelopment of a former car manufacturing site.
- Miller Birch on a new sustainable building for E.ON in Nottingham.

If you have ideas for a live student project contact alumni@ntu.ac.uk



Placed for success

Industry experience gained through quality placements give NTU students a real edge.

Teresa works with top auction house in Hong Kong

BA (Hons) Interior Architecture and Design student Teresa Cheung has spent her placement year in Hong Kong working as an intern in the Asian 20th Century and Contemporary Art Department of Christie's auction house. Her job was to plan and design the floor plan for previews.

"I looked after the whole setting-up process," she explained. "I developed close connections with contractors as well as the operations team, and our design team in Taipei. I worked alongside the international director and department specialists while they curated the location of our lots."

"The highlight of the year was seeing my floor plans built up in real life. I'm sure all placement students get the same satisfaction when their floor plans are built up, as it's a chance to see our dreams turned into reality."



Shanghai placement opportunity

A second year BSc (Hons) Real Estate student has won an internship in Shanghai with leading independent international property consultancy Knight Frank.

Will Buttery, has been awarded a two-week fully expensed placement; an opportunity awarded by Sociable Surveyors. Sponsored by the Royal Institution of Chartered Surveyors (RICS), Sociable Surveyors provides surveying internships at industry leading firms. It helps students and recent graduates to widen their professional experience in global offices.

Will was awarded the placement after uploading a two-minute video CV that demonstrated his passion for the industry. He said: "The graduate jobs market is highly competitive at the moment and you need to set yourself apart from the crowd. I couldn't believe it when I got the call and I still have to pinch myself when I think about it."

"Shanghai is the largest city in the world and is rapidly growing. To be able to experience this international market first-hand is an invaluable opportunity, particularly at this stage in my career."

Keith Agar, Senior Lecturer in Real Estate, said: "Will is a gifted student who has recently finished a year-long placement with the estates department of McDonald's Restaurants in London. The placement with Knight Frank will give yet another dimension to his CV and make him even more employable after graduation."

Unique design leads to patent application and German work placement

Jamie Mansfield's ingenious and original solution to an everyday, practical problem has not only won a prestigious award, but has also secured him an international work experience placement. His design is now the subject of a patent application.

The second year BA (Hons) Furniture and Product Design student won a £1,000 prize for his collapsible flat-pack clothes hanger as well as a placement at one of the world's leading polymer producers, Bayer MaterialScience, at their headquarters in Leverkusen, Germany.

By developing a unique, integral mechanism, Jamie designed a plastic coat hanger with flexible arms that collapse and spring back. This allows the user to attach clothing via the neck without having to take the hanger from the rail or undo buttons.

How are you placed to help a student?

More and more alumni are coming back to NTU to find high quality students to fill year-long placements at their companies. If you can offer a placement to a current student please contact us on +44 (0)115 848 8777 or email alumni@ntu.ac.uk

Cutting-edge courses

Develop your skills at NTU.

Professional Certificate in Architecture

Have you finished Part 1 of your Architecture studies? Would you benefit from support and guidance whilst you're working in industry?

NTU's new Professional Certificate in Architecture is designed to provide professional and educational support whilst you gain the vital experience needed to progress towards your Part 3 examinations. It offers endorsement of your Professional Education and Development Record (PEDR), one-day symposiums with relevant keynote lectures, and access to NTU facilities.

The course has a flexible start date and the £500 course fee will be deducted from your MArch Architecture fee if you decide to progress onto that course the following year.

Postgraduate Certificate in Planning, Urban Design and Sustainable Development

The Government's new National Planning Policy Framework (NPPF) places strong emphasis on good design and community led planning. Created alongside the development of the NPPF and the refreshed Building for Life this inspiring new course has been designed specifically to support those within the home and place building industry.

As the only UK course endorsed by Design for Homes, it's supported by leading professionals at the forefront of contemporary planning and design practice.

The one-year course is taught on a part-time basis with nine intensive one-day sessions complemented by an optional overseas field trip.

Make the smart choice with Smart Design

NTU's MA and MSc in Smart Design put you at the cutting-edge of product development, creating imaginative products and systems capable of changing the way we live. Students on the Smart Design courses gain an in-depth understanding of emerging technologies and materials and apply these to medical products, personal robotics, smart packaging, technical textiles and intelligent environments.

The Smart Design courses benefit from excellent industry links and previous students have been supported through the course by companies such as Pepsico and Unilever. Visit www.ntu.ac.uk/smart to find out more and to investigate sponsorship opportunities.

Short courses to keep you at the cutting-edge

Keeping up-to-date with current thinking about the built environment is essential for business success. With this in mind you can join NTU for Continuing Professional Development training throughout 2012-13. Visit www.ntu.ac.uk/cpd-be to find out more.

Scholarship opportunities

If you have graduated from NTU in the past five years, you could be entitled to a scholarship in the form of a fee-reduction of £1,000. You won't need to complete any paperwork, as you will automatically be considered for one of these awards when submitting a course application form by the scholarship closing date.

NTU alumni who graduated more than five years ago have plenty of other scholarship and sponsorship opportunities for postgraduate study. Visit www.ntu.ac.uk/adbe-pgscholarships to find out more.



If you are interested in further study in the School of Architecture, Design and the Built Environment come along to an open day to find out more. Visit www.ntu.ac.uk/opendays to book your place.



Orion's design sets sail

Alumnus Orion Shuttleworth has spent the past three years designing the luxury £15m super yacht, Adastra.

This 42.5m trimaran, which was launched into the Pearl River in Southern China in April 2012, was designed for long-range ocean voyaging and to meet the needs of an experienced sailing family. The yacht provides the level of comfort and style that would be expected in a boat of this class and size. It has low fuel consumption, yet provides excellent sea keeping qualities and luxurious accommodation with space for nine guests and up to six crew members. Initial sea trials suggests Adastra is the most fuel-efficient super yacht in the world.

Orion (BA Hons Product Design 2004) said: "The challenge of turning this concept into a viable luxury yacht led us to develop new thinking on stability and comfort at sea for this type of craft. Tank testing and radio controlled model tests in waves have been carried out to analyse stability and performance. We have also undertaken a state-of-the-art structural analysis of all the major components to achieve the light weight required for very low fuel consumption.

"Our aim is to always stay true to our design philosophy of form follows function, and try to produce elegantly styled yachts that are both seaworthy and efficient. So far Adastra has exceeded our expectations and we are delighted."

Orion's interest in designing yachts began at a young age. "I remember spending weekends with my father in his design office building models and trying to mimic his drawings," he says. "I went on to design boats for both my A-level and degree projects and started designing

professionally in 2004. It's the perfect way to marry my love of the sea and sailing with my love of design."

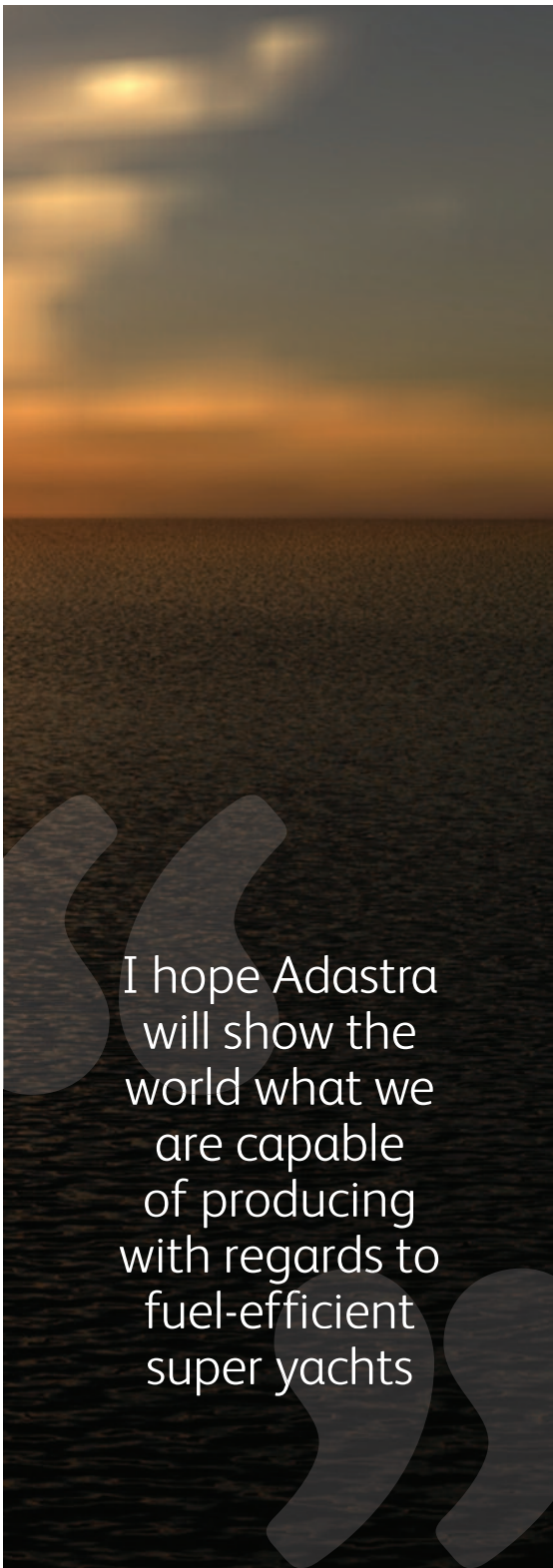
After graduation Orion worked for his father's company, John Shuttleworth Yacht Designs Ltd. After gaining some experience he got a job with power boat designer Bernard Olesinski where he worked until 2010 when he set up his own consultancy specialising in yacht styling, 3D design and visualisation. He then started working closely with his father's company on the design of Adastra.

As well as his design business, Orion is the team manager and sailor on board super yacht designer Bernard Olesinski's sailing yacht. He also charts a catamaran in Corsica most summers.

So what's next for Orion? "I want to continue my involvement in both the design and sailing of yachts," he says. "I hope Adastra will show the world what we are capable of producing with regards to fuel-efficient super yachts and look forward to designing many more large, fuel-efficient multihulls.

"I'm sure we'll see a move towards the 'eco yacht'. We are already working with researchers on alternative propulsion systems, which include hybrid solar systems and kite power. Our engineering knowledge and methods of analysis are under constant development, which will result in lighter, more efficient hull and deck structures."

To see more of Orion's designs visit www.orionshuttleworth.com



Work to reduce

‘BBQ-nation’

carbon footprint



A group of NTU Product Design students are supporting a local entrepreneur to bring his energy-efficient Charbecue to the domestic market.

The UK is Europe’s leading barbecue nation, hosting over 120 million in 2011, with each traditional charcoal barbecue creating a carbon footprint of 998 kg of CO₂e - leading to the equivalent annual greenhouse gas emissions of 234,824 passenger vehicles, or the CO₂ emissions from the electricity use of 149,327 homes for one year.

The students were tasked by the University’s sustainable design project, Future Factory, to help inventor Phil Hards develop the Charbecue. The Charbecue is a commercial barbecue that is 30% more energy efficient and produces fewer emissions, for use at home – potentially reducing UK carbon emissions by millions of tons per annum.

The group assessed the current design and manufacturing processes and made a number of recommendations, including a reduction of stainless steel in the design

and substitution with cast iron to lower product costs and reduce the weight.

The number of individual components used in the commercial design was also identified as an issue by the students, who were at first unable to make it financially profitable. To overcome the problem, they worked to simplify the design and identified a number of parts that could be made into just one component.

Using market research the students also provided ideas to Charbecue about additional items they could sell as accessories, and a number of changes to make the product easier for new users, adding significant value to the brand.

Phil Hards said: “I came to Future Factory for support because I wanted to produce a domestic version of the Charbecue using sustainable materials. Getting some fresh ideas has been fantastic and the students really helped me to see where it can go.”

PhD student Daniel Shin has also been working on the project. He said: “The students were able to use the knowledge gained from their course on a live project which could have a real impact.”

Debra Easter, Future Factory Project Manager, added: “This project encapsulates what Future Factory is all about – helping local businesses to develop through sustainable design.”

Future Factory supports sustainable design within small and medium sized businesses (SMEs) in the East Midlands. They can help your business source the expertise it needs to realise a more sustainable future. Visit www.ntu.ac.uk/futurefactory for more information.

Events 2012-13

The School and University host many events throughout the year which are open to our alumni and the general public.

NOVEMBER 2012

Future Factory project showcase event
14 November
Old Chemistry Theatre, Nottingham
Conference Centre

More details: www.ntu.ac.uk/futurefactory

DECEMBER 2012 / JANUARY 2013

Harbin International Snow Sculpture Competition
19 December 2012 – 10 January 2013
Harbin, China

More details: www.ntu.ac.uk/harbin

MARCH 2013

Architecture, Design and the Built Environment Postgraduate Open Evening
13 March
Newton building, City site, Nottingham
Trent University

More details: www.ntu.ac.uk/adbe

APRIL 2013

Association of Architectural Educators UK International Conference
3 – 5 April
Nottingham Trent University

More details: www.ntu.ac.uk/aaeconference2013

Architecture, Design and the Built Environment Postgraduate Open Evening
Newton building, City site, Nottingham
Trent University
24 April

More details: www.ntu.ac.uk/adbe

MAY 2013

Nottingham Young Creative Awards
1 May
Nottingham Playhouse, Nottingham

More details:
www.youngcreativeawards.co.uk

Art and Design Degree Shows
31 May – 8 June (Private View on 30 May)
City site, Nottingham Trent University

More details: www.ntu.ac.uk/degreeshow

Friends of Architecture, Design and the Built Environment Annual Networking Event
Newton building, City site, Nottingham
Trent University

More details: www.ntu.ac.uk/adbe

JUNE 2013

Art and Design Degree Shows
31 May – 8 June
City site, Nottingham Trent University

More details: www.ntu.ac.uk/degreeshow

Free Range
The Old Truman Brewery, London

More details: www.free-range.org.uk

New Designers Part 1
Business Design Centre, London

More details: www.newdesigners.com

JULY 2013

New Designers Part 2
Business Design Centre, London

More details: www.newdesigners.com

College of Art & Design and Built Environment Research Conference
8 – 9 July
Newton building, City site, Nottingham
Trent University

More details: www.ntu.ac.uk/art

SEPTEMBER 2013

5th International Conference on Advanced Design and Manufacture
11 – 13 September
Harbin, China

More details: www.ntu.ac.uk/adm2013

The University also hosts the Distinguished Lecture Series, which provide an exceptional range of expert guest speakers, covering many exciting subjects. Visit www.ntu.ac.uk/distinguishedlectures for more details.

Lean Wednesdays are coming to Nottingham!

As the British construction industry looks to adopt the Lean project agenda, building professionals need to be aware of the key tools and techniques.

Nottingham Trent University has made it easy to engage with Lean projects by scheduling Lean Wednesdays throughout 2012-13. Each event runs from 6.00 pm to 8.00 pm on NTU’s city campus.

The sessions cost £30 and the first event takes place on Wednesday 21 November 2012.

Book your place to meet local professionals and hear from Lean experts on a host of innovative topics at www.ntu.ac.uk/leanwednesdays

For further information about these sessions, and other course and training opportunities with NTU, email Steve Whalley at cpdbe@ntu.ac.uk or visit www.ntu.ac.uk/leanwednesdays





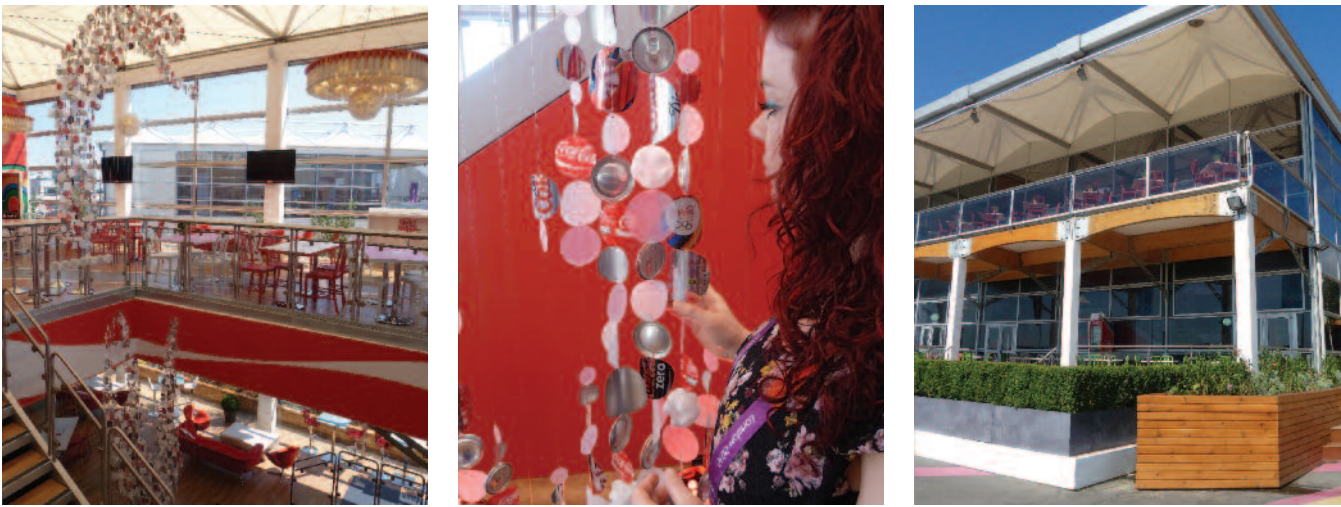
Eco-artist is the real thing

Alumna Sarah Turner entered into the Olympic spirit with an eco-friendly commission for Coca-Cola.

Coca-Cola first noticed Sarah's work over a year ago and have been in contact with her ever since, choosing her to design and make bespoke lighting and a sculpture for their Hospitality Centre at the Olympic Park.

Based at The Hive, NTU's Centre for Entrepreneurship and Enterprise, Sarah specialises in reusing locally collected waste plastic drinks bottles – sandblasting them before cutting and shaping them until they are unrecognisable from their original state.

Sarah, who graduated in 2008 with BA Hons Furniture and Product Design, said: "When I first started making lights from waste plastic bottles I always hoped that Coca-Cola would notice me and my work and get in touch. Being commissioned by them for the Olympics was a dream come true."



The tight timescale and manufacturing work required led to Sarah approaching NTU's sustainable design project, Future Factory, for support. She was given access to the University's workshop facilities with technical staff support to build five giant two-metre wide lights.

Each of the five large lights consisted of rings of plastic bottles surrounding a central globe and was constructed from 190 plastic Coca-Cola bottles. The centre point of each light is Sarah's Cola 30, the first light Sarah made from waste bottles. It was this original design which alerted Coca-Cola to Sarah's work.

Sarah said: "I wanted the lights to have an Olympic look which is why I chose to make them as circular disks with rings of plastic bottles, reminiscent of the Olympic rings."

...I always hoped that Coca-Cola would notice me and my work...

Sarah was also commissioned to make a nine-metre tall sculpture from waste Coca-Cola bottles and cans. Thousands of pieces were hand-cut then tied onto invisible wires in the form of a diver, freeze-framed in three different stages of a high dive.

She said: "The brief set by Coca-Cola was quite open, so I really got to use my imagination and creative recycling skills. Diving fascinates me, it's so precise and graceful, yet quick and over in a moment. I thought by capturing and almost freeze-framing the dive in its different stages we could celebrate it in more detail."

Coca-Cola were so impressed with Sarah's work that they asked her to create table centrepieces for the Langham Hotel in central London where many of Coca-Cola's guests were staying for the duration of the Olympics.





David's legacy

It is with sadness that we bring you news of the death of former lecturer and alumnus David Richmond (Estate Surveying 1964).

David was thought of fondly by all those that knew him, including Nottingham Trent University staff and the many students he taught over the years.

David started out as a part-time student at the then Regional College of Technology in the 1950s and became a chartered surveyor. His passion for education led him to join the Department of Surveying in the 1960s where he worked until he retired 30 years later.

In an interview with the Alumni Association before his death, David said: "Whenever I meet or hear from my former students, they always recall their time at NTU with affection and gratitude and this is the best accolade for a career well spent."

As a long-established donor to the University, human capital was not the only legacy David left. The donations he left to the University were used for the

benefit of students and, with the help of some of his former students, we have established the David Richmond Memorial Fund.

David cared about the students he taught, so it is only right that his memorial fund reflects this. Therefore, in the first instance, the fund will enable the University to award a series of scholarships, designed to help underprivileged students have the best start they can at Nottingham Trent University. In addition, there will also be an annual prize given to a student who excels in the subjects David taught.

As someone who had a significant impact on the sector, we are pleased that his name will remain beyond his years and we are inviting alumni to join us in remembering David, and his on-going influence on the building and construction management world.

For more information about the David Richmond Memorial Fund visit www.ntualumni.org.uk/davidrichmondfund, or contact Alumni Fund Officer Stephen Knott on +44 (0)115 848 8807 or email stephen.knott@ntu.ac.uk to find out how your donations make a difference.

If, like David, you wish to make provision for the University in your Will please contact Fiona Fowkes, Senior Development Officer on +44 (0)115 848 8775 for an informal and confidential discussion about your wishes. Alternatively email fiona.fowkes@ntu.ac.uk.

Keep in touch!

Updating us is easy. Simply complete and return the update form you received with this issue of *Network*, email us at alumni@ntu.ac.uk or log into the Online Community at www.ntualumni.org.uk. This is where you can also check out the benefits available to you as a former student.

By staying in contact with us we can keep you informed of news from your University and your fellow alumni, as well as let you know about special alumni events and reunions.

Help us find your friends

We often lose touch with our former students as they move around after University - and they are missing out on news from both the University and the School of Architecture, Design and the Built Environment. If you think you can help us re-establish contact with some of your friends, please get in touch.

Whether you left the University many years ago, or just this year, we really want to keep in touch with you.

Contact your Alumni Association on +44 (0)115 848 8777 or email alumni@ntu.ac.uk. You can also join our growing networks on LinkedIn, Facebook and Twitter. Search for "Nottingham Trent University Alumni Association".