

- Healthy plants and winter growth at CEH Edinburgh
- Newcastle University replace fluorescents with Attis LED lights
- Bangor University's Research Centre installs Attis-7 grow lights
- College glasshouses aim to inspire next generation of horticulturalists
- PhytoLux features in leading "Innovation Marketplace"
- PhytoLux showcase at Innovate 2015



The latest news, views and industry information from the LED plant growth lighting specialists

Healthy plants and winter growth at Centre for Ecology & Hydrology

During recent years the Centre for Ecology & Hydrology (CEH) has invested significantly in improvements to infrastructure to help achieve energy savings. One of the recent projects included an upgrade of the existing glasshouse lighting at the Edinburgh site to Phytolux LED lights. The old 600W SON-T fittings were replaced on a like-for-like with 200W Attis-7 units in order to help reduce the glasshouse electricity demands by up to 70%.

The Attis LED lights within each unit are specially configured to produce light in the optimum wavelength range for photosynthesis and unlike standard high intensity bulbs, do not produce excess heat and additional cooling requirements. Feedback from the scientists has been positive and the plants are growing well at Edinburgh, where the replacement project was completed earlier this year.

Alan Gray, Plant Ecologist at Edinburgh, explains; *"We mostly use supplemental lighting for tropical plants and with the old lighting we would usually expect the plants to go slightly dormant at this time of year and not actually do much growing over the winter. However, with the new Attis lights, the plants are still growing and look really healthy. We are growing some endemic plants from St Helena and they are doing particularly well. The lights give off around 600 $\mu\text{mol m}^{-2} \text{s}^{-1}$ of PAR at bench height which seems ideal."*



PhytoLux features in leading "Innovation Marketplace"

LEO (Leading Edge Only) is the world's leading "Innovation Marketplace" and provides a platform for corporations, consultancies, governments and other major organisations seeking new innovative solutions to quickly and cost effectively access those providing the latest innovations in technologies, products and other solutions.

Click here to view the full article:

<http://www.leadingedgeonly.com/innovation-marketplace/InnovationDetails.aspx?id=2124>



Healthy plants and winter growth at CEH Edinburgh

Installation images below



Newcastle University replace fluorescents with Attis LED lights

Having already installed Attis plant growth lights in their central campus and Cockle Park glasshouses, Newcastle University has also now installed these lights in their Devonshire Building. This building has three growth rooms that were previously using very inefficient fluorescent lighting that used a lot of energy and also required constant maintenance. As these rooms were being upgraded, the University took the opportunity to install energy efficient PhytoLux LED plant growth lights, using a mixture of Attis-4 and Attis-7 lights.



David Moir, School Administrator
- Research & Outreach, comments;

"We upgraded from the old style 100 Watt fluorescent tubes in our growth rooms, to the far more efficient PhytoLux LED lighting, largely due to energy savings, but it has had the added benefit of greatly improving the light quality at the same time".



The latest news, views and industry information from the LED plant growth lighting specialists



INNOVATE 2015
THE GLOBAL SPOTLIGHT ON UK INNOVATION

PhytoLux showcase at Innovate 2015

Hosted by Innovate UK and UKTI (UK Trade & Investment), Innovate UK 2015 played host on November 9th and 10th to more than 100 invited exhibitors, including PhytoLux, at the Old Billingsgate building in London. The event was attended by 200 inspirational speakers and more than 250 international visitors from 30 markets.

Steve Edwards, MD of PhytoLux, commented after the show; *"We are delighted to have been chosen to showcase our exciting new LED plant growth lighting technology at Innovate 2015. This event provided us with a real opportunity to meet with buyers, investors and entrepreneurs and seek out partners to work with us as we take advantage of the obvious need for a commercially viable LED plant growth light solution globally."*



PhytoLux Research Panel being showcased at Innovate 2015

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Bangor University's Research Centre installs Attis-7 grow lights

Following the successful installation of the Attis-7 at Bangor University, the decision was taken earlier this year to also replace the HPS plant growth lights at the university's Henfaes Research Centre.

Henfaes Research Centre, is located at Abergwyngregyn – about 7 miles from Bangor and covers an area of 252 hectares. Henfaes offers unrivalled opportunities to study diverse environments from sea-level to amongst the highest land in Snowdonia, all on one farm. A 49 hectare lowland area provides facilities for research and teaching in lowland agriculture (including arable crops and livestock grazing), forestry, hydrology, environmental science and conservation. It also has an extensive shoreline for studying coastal salt marsh processes.



Glasshouse installations at Henfaes Research Centre

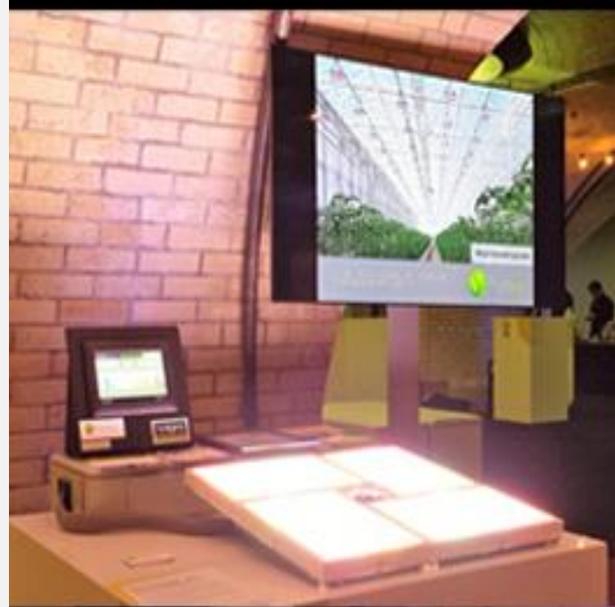
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The latest news, views and industry information from the LED plant growth lighting specialists

INNOVATE 2015 continued:



College glasshouses aim to inspire next generation of horticulturalists

article by Rachel Anderson
producebusinessuk.com



The latest news, views and industry information from the LED plant growth lighting specialists

This autumn the horticulture industry will witness the much-anticipated opening of two ultra-modern teaching facilities – Reaseheath College’s £8million National Centre for Food Futures and the Environment and Pershore College’s Collections House, which forms part of Pershore’s larger, £5.8m redevelopment. Produce Business UK assesses how these new learning resources will help address the sector’s skills shortage – and how fresh produce buyers can lend their support.

The fact that each year crowds of tourists flock to the glasshouses at the [Royal Botanic Gardens in Kew](#) perhaps highlights just how intoxicating it is to be surrounded by breath-taking flora and fauna.

And so when prospective horticulture students step inside the new, vegetation-filled glasshouses at Pershore College in Pershore, Worcestershire, or Reaseheath College in Nantwich, Cheshire, the question on their minds will very likely be: “Why would I *not* want to study horticulture?”

John Farmer, commercial manager at Pershore College, has thoughtfully sourced some statuesque Dicksonia Squarrosa fern trees to take pride of place inside the college’s eight metre-high Collections House.

He explains: “We wanted the canopy to be high so it’s like walking through a rainforest. I think when people enter this space they will get a feel for what horticulture is all about.”

Reaseheath College, meanwhile, has built a vast 768m² glasshouse that has been divided into four zones – one for strawberry production, another for tomato production, a third for propagating plants and, finally, an area that will be used for general growing purposes.

The glasshouses are obviously going to make a lasting impression on people but, putting the “wow factor” aside, the two new developments – the finishing touches for which are currently being completed – have primarily been built to provide students with new and enhanced learning opportunities. As Sarah Hopkinson, Reaseheath’s curriculum area manager for horticulture and floristry, explains: “The [Reaseheath’s] state-of-the-art crop production unit will provide one of the most modern glasshouse training facilities in the UK, enabling Reaseheath College to train and prepare students for the future production of intensive food and ornamental crops vital to the continuing success of the entire UK protected cropping industry.”

Click here for full article: <http://resources.phytolux.com/images/phytolux/newsletters/newsArticle-UniGlasshouses.pdf>



The new facility at Pershore College in Worcestershire



Attis-7 plant growth lights feature in the new glasshouse