

# Breathing Life into Problem Places



Dr Nigel Dunnett, Reader in Urban Horticulture,  
Department of Landscape, University of Sheffield.  
Director of Green Roof Centre, University of Sheffield





Filene's

Mall Parking Garage

101 Cherry St.  
Office Building

100 Bank St.  
Office Building

Burlington Town Center

Bank Street

Pine Street

Pearl Street



# Pictorial Meadows

- Very long flowering, with minimal maintenance
- Very high biodiversity value
- Very high social attachment
- Minimal Resource Use
- Dependable results
- Cosmopolitan urban mixes – native and non-native plant species



# Cleared Sites Programme, Sheffield



















































































































Urban roundabout, Telford

































- 'A trip to the countryside just minutes from home'





























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Nigel Dunnett and Noël Kingsbury



# Planting Green Roofs and Living Walls

REVISED AND UPDATED EDITION





Stuttgart stuttgart

Image © 2008 AeroWest  
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Google

Pointer 48°46'57.51" N 9°10'35.51" E elev 253 m Streaming 100%

Eye all 3.56 km





Image © 2008 AeroWest  
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Google

Pointer 48°46'57.51" N 9°10'35.51" E elev 252 m Streaming 100% Eye alt 1.05 km



















# Moorgate Crofts Business Centre, Rotherham

Landscape Architect:  
Michaela Griffith

Planting Design: Nigel  
Dunnett









# Moorgate Crofts, June 2007









# Sharrow School, Sheffield

- Architect: Cath Basilio
- Green Roof Design & Planting Design: Nigel Dunnett





































# Invitation to the opening of a unique new Local Nature Reserve



Sheffield City Council has declared Sharrow School's green roof as a Local Nature Reserve.

It is the first green roof in the country to become a Local Nature Reserve and its declaration marks the 60<sup>th</sup> anniversary of the National Parks Act. This is something to celebrate!

Please join us for a tour of the new Local Nature Reserve green roof and the chance to chat with local environmental and community organisations over tea and cake.

**2.00pm to 3.00pm on Monday the 5<sup>th</sup> October  
Sharrow School, Sitwell Road, Sheffield, S7 1BE**

Local Nature Reserves are declared in recognition of their value for biodiversity, education and the local community. Green roofs look spectacular, provide a haven for urban wildlife and play an important role in helping to reduce the impact of climate change.

**RSVP by 1<sup>st</sup> October to Paula Lightfoot, Parks and Countryside Service  
[paula.lightfoot@sheffield.gov.uk](mailto:paula.lightfoot@sheffield.gov.uk)**









# Rain Gardens

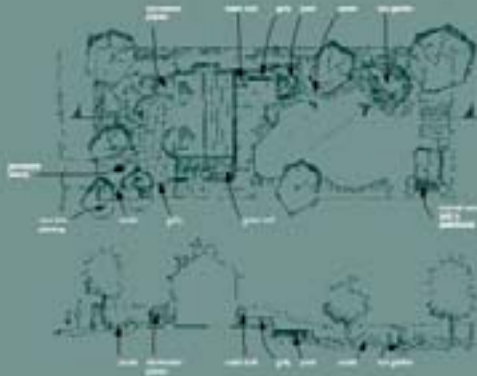


Nigel Dunnett is a senior lecturer in the Department of Landscape at the University of Sheffield, England, where he has developed innovative research programs into sustainable and ecologically sensitive planting for gardens and public landscapes. He writes regularly for leading horticultural magazines and websites and lectures widely throughout the UK. He lives in Sheffield.

Andy Claydon is a landscape architect, garden designer and lecturer in the Department of Landscape at the University of Sheffield, England. He lectures in design, landscape construction and design detailing. His work as a designer and researcher focuses on the application of new technologies and approaches to the creation of sustainable design solutions. He lives in Sheffield with his family.

Photograph of Nigel Dunnett by Jane Bellon; photograph of Andy Claydon by Peter Lamb.

Design by Rod Mack



Practical and creative water management techniques for gardeners and landscape designers including:

- Stormwater planters
- Porous and permeable paving
- Natural swimming ponds
- Rills and channels
- Green roofs
- Rainwater harvesting & storage
- River strips
- Landscape swales



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## RAIN GARDENS

Nigel Dunnett and Andy Claydon



Nigel Dunnett and Andy Claydon

## RAIN GARDENS

Managing water sustainably in the garden and designed landscape

Water is a precious commodity for gardeners and the rest of us. One of our greatest and most effective strategies to reduce our reliance on it lies in the soil. The techniques described in this groundbreaking book show how to capture, channel, store and reuse the rest of the rainwater that falls on a property to enhance our gardens and estates. Its dramatic effects of low bills, to be exact, make it the environment.

Water is our most precious resource. It is the lifeblood of our planet and the first on the list of our most precious resources. The scientific and environmental value of water can be brought together to bring success and sustainability to a garden. They, along with the science, research, the underlying principles of rain gardens are clearly described. To ensure that your water is stored in the garden and naturally filtered of flowing back into the environment (avoiding the problems of drought and flooding) during the times of lower rainfall. Efforts must be made to restore the natural water cycle by increasing areas of planting to store water. The role of which water is lost, replacing water that are traditionally 'hard landscaped' with permeability surfaces to allow rainwater to sink naturally into the ground, and even substituting conventional drainage for 'rain chains' that drain rainwater from the gutter directly into your garden. Being strategic of successful water management schemes from all over the world, it is clear that even small steps to manage water differently. Photographs depict the individual components of the rain garden and illustrations show how they may be installed. How to garden and combined together to form a 'waterwise' plan. Finally the book provides a unique overview of plants including their suitability for different rain garden situations.

The authors introduce detailed how-to information on the design landscape, handling both individual and the water environment. From gardens to green roofs, water, drainage treatment, permeable and permeable pavements and more of an introduction to a changing climate.

0206-28

0206-28



# Sandvik, Coventry

- Architect: Adrian Hallam
- Planting Design: Nigel Dunnett





























# Disconnected downpipes

