

Issue 16 | Spring 2014



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designing
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Permaculture
explained:
zones & sectors



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Staff, trustees and all our suppliers.

All members, supporters and donors.

We invite contributions from members. It's your material that gives life to these pages, so please keep your articles and news coming.

Please send any contributions to us by 11 June for publication on 30 July.

Small print: The views expressed within this newsletter are not necessarily those of the Permaculture Association. Opportunities and courses are listed for your information, so please check with the appropriate venue to verify any details. We don't take responsibility for any courses listed herein.

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Letter from the Coordinator

Andy Goldring, Coordinator / CEO

e: andyg@permaculture.org.uk t: 0113 230 7658

Hello and welcome to the new look newsletter. We decided to slim it down a little, use less paper, and half our postage costs. Each issue will come with a double sided poster – one of courses and events, and one with “timeless educational value” – please display this locally.

In the last few months you will have received the new members booklet and our latest annual review. I hope you found these informative – please share with others once you have finished with them.

We are in the last few weeks of the LAND project – at least the well funded phase! This means less money into the organisation, but we are taking an entrepreneurial approach, and see this as a great opportunity to further develop our self-reliance, and hone our services and offering for members and the public. The team in Leeds may get a little smaller, and some areas of work will have a little less attention whilst we re-organise, but new opportunities are emerging, and with over 10% of the membership (140 people) supporting the Association’s work on a regular basis, I am confident that we will be the better for it.

There are a few things you can do to help. Financially, you can: become a life member; sign up to Give as you Live; open a bank account with Triodos; switch to Eco-tricity; give a gift membership; or make a good old fashioned donation. On the learning front, you could: attend the Convergence in September, or the Scottish Gathering in June; sign up to do a Design Course; join the 355 people that are now doing their Diploma; or get support for your project as a LAND Learner. We also now offer a fabulous events service, so if you want help running a local or regional permaculture event do get in touch.

This is our collective venture, challenging and exciting. Thanks as ever for your continued support and engagement.

Andy Goldring

Join the conversation



twitter: [@permaculture_uk](https://twitter.com/permaculture_uk)



facebook: facebook.com/permacultureassociation

Association news

AGM report back

A great attendance this year with almost 100 people gathering in Leeds for a day of workshop areas and the actually very engaging Annual General Meeting. Deano Martin, Teresa Pointing and James Piers Taylor have joined the Board of Trustees, which continues to be chaired by Stefan Geyer. A special thanks goes to Jo Holleran for her excellent diploma presentation!

30th celebrations

Well it's time to pack up the bunting. We've reached 31 now, which for some reason seems less of a reason to celebrate than 30. Thanks to everyone that sent in memories, photos, and contributions for the newsletter. We're still keen to get our archive in good order, so if you have a passion for filing, documenting and detective work, do get in touch!

We're on a mission!

The last trustees meeting was an excellent 'back to basics' review of our charitable aims and how we meet them. Alongside some updated aims, we finally tackled the ever elusive vision and mission statements. The drafts are:

"The Permaculture Association's vision is a world in which we care for the earth, care for each other and future generations, and live within the earth's natural limits."

"Empowering people to design a flourishing Britain and contributing to permaculture worldwide."

Thanks to the many people that commented via the survey – some really useful comments

that will help hone and finalise the statements at the next board meeting.

Poster submissions welcomed

We're looking for member poster contributions for future editions of the newsletter – they will be used for stalls and events, could be info-graphics on the website, and to help engage new people and publicise the permaculture and the Association – so a really important new element with multiple functions! **Contact Anna: communicate@permaculture.org.uk**

Re-thinking parks

We have just put in a very exciting proposal to NESTA / Heritage Lottery Fund to develop a Permaculture Parks Toolkit. It was a tight deadline, so thanks to the 30 projects that helped out! We knew of a small number of parks using permaculture, looks like there are more than 40! if you have a parks project, please get in touch with Alan, who will contact you if we get to stage 2.

Permaculture Ambassadors programme

We are excited about being able to tell you that our new Permaculture Ambassadors programme is buzzing and successful, with new Ambassadors joining and making contributions on our brand new blog! Are you passionate about permaculture and would like to connect with others and tell permaculture's story?

Contact Anna to find out more!
communicate@permaculture.org.uk

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GUIDE TO

FESTIVAL & EVENTS permaculture

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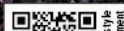
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PERMACULTURE MAGAZINE

www.permaculture.co.uk

Network news

Permaculture magazine are keen to work with the Permaculture Association's Ambassadors

The Permaculture magazine and their travelling bookshop are always looking for help at events around the UK (help with loading in and out, manning their stalls, answering questions about permaculture, etc). These can be permaculture gatherings, book and wood fairs, and an array of music festivals. Things they can offer include work experience, free entry into events and festivals, and much more! If you would like to know more or help contact: tony@peramaculture.co.uk

Land Workers Alliance success

Congratulations to the Land Workers Alliance who have secured a grant to support their development as the UK's first Via Campesina organisation (global network of for Food Sovereignty). We are delighted to have supported this by sponsoring the application.

The Association can help you get funding

Some funders require you to be a charity in order to get funds. If you are not a charity and this has stopped you applying, we may be able to help. Your project has to fit with the Association's aims, and there is a small application form to complete. Get in touch with Andy for more information: andyg@permaculture.org.uk

International Permaculture Day

If you want to take part in this year's International Permaculture Day on Sunday 4th May 2014 but you are tied-up don't be afraid of nominating another day and letting people know about permaculture! Our friends at Permaculture magazine are making Sunday 11th May their International Permaculture Day (IPD) this year as that is the date of the South Downs Green Fair, the annual festival at the Sustainability Centre, the home of the magazine.

WWOOF

The return to the tradition of WWOOFing for the weekend got off to a great start in Todmorden on 16/17th November when 8 WWOOFers assembled at Back Rough Farm. Each of them had travelled no more than 50 miles (indeed some were so close they walked!). There is already talk of a repeat event in the Spring. Amanda Pearson, WWOOF UK Volunteer Liaison, said "We are fascinated to see what spin offs occur from this event - and keen to support local WWOOFs in other areas." Hosts or volunteers wanting to make this happen near them should contact Amanda: amanda@wwoof.org.uk

Weekly blog posts on people-based designs

Looby Macnamara (author of *People and Permaculture*) has a weekly blog focusing on the application of permaculture to people based designs. She is currently writing a post focusing on a different principle each week. To find out more, visit: www.loobymacnamara.com

Are you developing a social enterprise?

The Big Lottery Fund's new 'Power to Change' programme will support community led enterprises. There will be £150 million available over at least 5 years, and opens in the autumn, so now is a great time to start making plans.

www.biglotteryfund.org.uk/powertochange

Seeds of Permaculture documentary

Is an 88 minute inspirational & educational "how to" documentary about permaculture in the tropics. Seeds of Permaculture is crowd funded, interactive, HD & available for free!

This is an empowering example of people supporting each other & distribution of surplus through crowd funding & open source resources. Although it is set in the tropics, viewers all over the world can draw inspiration & ideas from this beautifully made ahoohafilm production. The next in the series will be on Urban Permaculture, so please watch the space.

www.seedsofpermaculture.org

New course programme in Permaculture, Resilience and Mixed Smallholding

Adrian Patch has put together a number of one and two-day courses focusing on permaculture and resilience as they may be applied to mixed smallholding (i.e., with livestock). Adrian attended the Sustainable Land Use course at Ragsmans Lane Farm in 2009 and went on to acquire a little over 6 acres of pasture within the Dartmoor National Park. His course programme for 2014 includes content for those with various levels of experience of permaculture and smallholding and includes 'Permaculture with Livestock: for Permies'. For details of the courses see:

www.moorwholesome.co.uk

Afristar Foundation

Afristar Foundation is a South African permaculture organisation that develops projects and strategies promoting Green Futures centered on the emerging nature-based economy. They do this by advocating for, and creating, 'green' sustainable projects and developing multimedia educational resources.

Their underlying ethos is that there is a wealth of untapped natural wealth and social capital that can be mobilized to facilitate sustainable livelihoods by educating and empowering local people with traditional & appropriate knowledge, so as to utilise their natural resource base for sustainable economic upliftment. Please visit www.afristar.org to see all our permaculture posters and DVD's, learn about our projects and make a donation. Or contact us to assist with your permaculture graphic art.

Research update

by Chris Warburton-Brown

Soy bean trial – participants wanted

This year our growing trial looks at where it is possible to grow soy beans in the UK. Soy beans are one of the most grown crops in the world, but have not been widely grown in Britain. The trial is a very simple one; you need to set aside a small patch of your garden to grow the beans according to the instructions we will send you. Then you tell us if the crop succeeded, weigh your yield, report any problems, and enjoy eating your tasty beans... and that's it. If you would like to take part in the trial, please e-mail Chris: research@permaculture.org.uk

Research Strategy 2014-18 agreed

Over the last few weeks, we have been writing our new Research Strategy. All of the Association's research work in 2014-18 will share two objectives: to improve permaculture practice and to create a robust evidence base for permaculture. From these objectives come seven results we want to achieve. By 2018 we will have:

1. created permaculture research protocols
2. engaged more people in permaculture research
3. enabled more people to get access to permaculture research
4. engaged more students in permaculture research, including more research volunteers
5. increased links between The Association and universities
6. built an international research network
7. conducted our own research trials.

You can read the whole strategy on The Association's website by clicking 'Our Work' then 'Research'.

Do you measure your yield? Would you like to?

As part of our Soil, Biodiversity and Yield Tests project, Tomas Remiarz and Graham Bell have devised a simple method of measuring the yield of all the edible crops grown on a permaculture plot, and we want to trial it on a dozen sites in the UK in 2014. If you already measure your yields, or if you have always wanted to but have never quite got round to it, we'd love you to join the trial. It will require no technical skills, just a pencil, a bit of growing land and some enthusiasm, plus about an hour of your time every month between March and November. Volunteer by e-mailing research@permaculture.org.uk



How do you measure your yield? >

Looking back and looking forward

On December 2nd fourteen Association members, volunteers and staff attended the annual meeting of The Research Advisory Board in Derbyshire. In the morning we reviewed the amazing amount of work done in 2013, including researching forest gardens, developing soil tests, building an international research network, creating a new Knowledge Base and launching the Permaculture Research Digest. In the afternoon we focussed on the priorities for 2014: securing further funding for The Research Coordinator (current funding ends at Christmas), a farming research project, the launch of the new Knowledge Base, a new permaculture library, biodiversity testing and measuring crop yields. The 2014 Annual Plan is now on the Association website; click 'Our Work' then 'Research'.

Research focus: the magic of legumes

Above: bacterial nodules on legume roots fix nitrogen from the air into the soil, thus feeding the legume itself and other plants growing nearby.

Legumes have a huge role to play in reducing the use of nitrogen fertiliser and subsequent nitrate leaching. The Legume Futures project has compared results from hundreds of research sites and confirmed what permaculture practitioners already suspected; the best way to harness the nitrogen fixing potential of legume crops is through intercropping. In other words, polyculture (or possibly bi-culture!). Early results from trials at the James Hutton Institute, Dundee, suggest that integrated crop management techniques including legume intercropping can greatly reduce chemical inputs with no drop in yields.



Barley and pea intercropping experiment run by Tejendra Chapagain at The University of British Columbia. The glass dome is used to measure carbon emissions.

Work is now needed to develop a range of legume varieties for different bio-regions which are especially suitable for intercropping. Potential health and economic benefits of increased legume growing have also been identified, but the current barrier is a lack of market for the crop. A suggested focus for future research is therefore 'locally grown baked beans', other suggestions include broad bean beer, using field beans for livestock feed in place of soya, and replacing corn starch with bean starch.

Source: Legume Futures is a four year research project considering the future of legumes in Europe (www.legumefutures.de). Andy and Chris recently contributed to a paper discussing some of the project's findings, and Chris attended the project's conference at SRUC, Scotland's Rural College, in Edinburgh.

To find out more, visit
<http://ubcfarm.ubc.ca/2012/03/11/graining-ground-pairing-grains-and-legumes-for-low-input-organic-farms>

Education

Education policy consultation

We have asked members to give us their views on what qualifications teachers should hold to be able to issue the Association’s certificates. This has promoted a lively debate with responses ranging from “Every lead teacher must hold the diploma – no exceptions” to “This professionalisation of permaculture is hindering the spread, muffling some voices”.

There is clear consensus on the need to spread permaculture as widely as possible. Some see the best way to do this as professionalising permaculture education practice, meeting the ‘mainstream’ half-way and thereby expanding the edge at which we can work. Others are keen to preserve permaculture as a radical and distinct alternative to a failing and inequitable system; they want to see permaculture education free from rigid and restrictive controls. And of course, there is a range of opinion in between.

Given the scale of the challenges our planet faces, we cannot afford to limit ourselves to a single strategy. All are vital. Like a healthy ecosystem, we want the permaculture education community to be diverse, cooperative and dynamic. We want to recognise everyone’s unique contribution, and support them to deliver the best possible quality education. We must also recognise learners’ needs and put the necessary quality and safety assurances in place.

Writing a policy that reflects all this is a challenge. We might not get the balance right the first time, and it might need to be tweaked indefinitely. However, what is important is that everyone remains involved, recognises the value of others’ views and continues



Consultation

to engage constructively, even if they are disappointed with aspects of the first iteration of the policy.

The Education Working Group have been consulting on education policy since November 2013. To find out more about the policy consultation, please visit: www.permaculture.org.uk/education-policy-consultation

Education Working Group

The Education Working Group met in January at “Edibles”, the LAND centre in the Yorkshire Pennines to review responses to the education consultation, and plan future projects and fund raising efforts. They are now also holding monthly teleconferences. Possible future projects include the development of teaching materials for use with young people, a major parks and public spaces education project, a European teacher training and development project and an online learning materials project. A big thank you to Klaudia van Gool (chair), Aranya, Graham Bell, Jon Kean, Peter Cow, Steve Smith and Ute Kelly for their ongoing work.

Diploma

The diploma community continues to grow and we now have 350 diploma apprentices!

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The National Diploma Gathering

The 2013 National Diploma Gathering took place in the beautiful surroundings of the High Peak in Derbyshire, at the recently refurbished and rather grand Castleton Losehill Hall.

A new feature at this gathering was an informal marketplace, where attendees could sell anything from books and T-shirts to fresh produce like eggs!

The weekend got underway with Julie Stobbart presenting her diploma, which was largely based on invisible structures and social systems. Several attendees commented on how inspiring it was to see so many examples of non-land-based designs. Later that afternoon Pippa Chapman presented her own diploma journey, which charted her inspiring story, which included navigating her way through a serious illness and child birth to prepare her portfolio for accreditation.

The Saturday also included a session from Aranya on the design process, and another from Jan Mulreany on learning pathways as designs.

There was also a design share, where apprentices had a chance to compare designs and ask for peer feedback. This was conducted as an informal session, which in hindsight needed more structured coordination. Nevertheless, apprentices were able to see and critique each others' work.

There were several opportunities for tutorials, as well as some time for tutor training.

The Saturday was rounded off with an Apprentices' Question Time.

The Sunday had a greater focus on workshops. Some highlights included "Designing for End of Life" by Katie Shepherd, "Shedding the Shackles of SADIM (Deconstructing the Design Process)" by Deano Martin, "Designing a Garden City" by James Taylor and "Guilt & Motivation" by Hannah Thorogood. Wilf Richards, Nicole Vosper, Anna Schmidt, Louise Tipping, Matt Ralston, Pippa Chapman and Chris Warbuton-Brown also led really engaging workshops on a range of topics from tool making to action learning & reflective learning.

During an open space slot, attendees had the opportunity to discuss matters that arose during the weekend.

Feedback about the overall event was positive. People generally loved the venue: over a third of attendees said they'd like to have the next gathering there. A couple of issues arose though: transport from the local station, heating and some aspects of the catering are aspects we will pay extra attention to in the future.

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Diploma Working Group

The Diploma Working Group is continuing to do a great job on the ongoing management of, and tweaks to the diploma. They have been meeting regularly to this end, and continue to make great progress in ironing out those little wrinkles that remain. Many thanks to Wilf Richards (chair), Deano Martin, Lee Jenkins, Louise Tipping, Nigel McKean & Pippa Greenwood for their ongoing work!

Several members of the Diploma Working Group have stepped down. We'd like to

LAND Project news



The changing nature of our demonstration network

For the last 5 years the LAND Network has been generously funded by the Local Food Fund which has helped us grow into a vibrant and diverse network of 66 LAND Centres and 30 LAND Learners. We have been preparing for the end of this financial support by helping the network become more self sustaining and self reliant. The Association is actively seeking new grant funding to further develop the network in new ways and with potential new target groups like farmers, people in ‘food deserts’, schools, campuses and people experiencing mental distress. Alan Thornton, the Network Coordinator, would welcome ideas and support for this new phase.

International Permaculture Day – Sunday 4 May – will your place be open?

Across the world hundreds of Permaculture projects are going to open to visitors on 4th May, included lots in Britain. At the Association office we’ll be doing some coordinated publicity to help make the day a success for you. Please have a think about what you could do over that weekend and put the information online at:

permaculture.org.uk/noticeboard and permacultureday.org

Our new event booking system – a permaculture Eventbrite

A need of most permaculture demonstration projects is an easy to use online event booking system (like Eventbrite.com). So it made sense for the Association to develop this functionality within our website for LAND Centres. It’s an easy way for your project to collect registrations and fees that you may charge for your courses, tours, visits or other types of event.



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Does your home or project show off permaculture to the public?

For our permaculture movement to grow we need thousands of people visiting thousands of excellent demonstrations of permaculture design. That’s why we established the LAND Network. If your home, garden or project does that then we’d love to have you in the Network.

The first step is to become a LAND Learner, which involves an initial assessment visit. This costs £135 (and tutor travel costs) for one of the 30 brilliant Diplomas tutors to visit and support your project development. More information at:

permaculture.org.uk/land



Top: Harvest at Simshill Shared Harvest LAND project
 Bottom: Muffin break at Hulme Community Garden Centre

PROJECTDIRT

THE GREEN SOCIAL NETWORK

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Project Dirt – connect to find projects and volunteers

Project Dirt connects connecting projects & people doing amazing activities in their community. They have recently launched the Permaculture Cluster, a free hub anyone can follow to find out about upcoming events, promote your projects, connect with like minded people, blog, discover or post jobs and volunteering opportunities, share good practice and access resources. www.projectdirt.com/cluster/permaculture/. Project Dirt will help spread the word about all your great work and give you access to their growing community.

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Ten new permaculture projects join the LAND Network

Over the winter we have been working with some new projects that are working with communities experiencing disadvantage. It’s been great to see how our expert designers (all Diploma tutors) have helped nurture the project’s designs and development towards being excellent public demonstrations of permaculture.

The 10 projects are: Indigo Brave (near Newark), Hulme Community Garden Centre (Manchester), Hyde Park Source (Leeds), Gwyls Crankan (Cornwall), Thoresby Edible Forest Garden (Hull) , Colne Valley High School (Huddersfield), Maypole Forest Garden (Essex) , Windmill Community Allotment (Margate), Sims Hill Shared Harvest (Bristol) and Southend Transition Community Allotment.

Membership

Corner

Lifetime membership

Did you know, you can show a lifelong commitment to the work and values of the Permaculture Association by becoming a lifetime member?

For £400 you could help us support a network of people creating environmentally and socially beneficial systems across all aspects of their lives. You will also enable us to continue our research into the benefits of sustainable food production methods, including larger yields and increased biodiversity. What's more, you'll never miss another edition of Permaculture Works!

Please support us today by visiting:
www.permaculture.org.uk/lifetimemembership

Events in your area 2014

Are you passionate enough about permaculture to spread the word far and wide?

This year we want to get the message further than ever before, and we're looking for people who would be willing to become a Permaculture Ambassador for a day or longer, man a stall or give a workshop at an event in their area – if this is you, get in touch!

Ideally we want to mobilise the network into promoting the benefits of permaculture to new audiences with mutual interests – yoga festivals, biodynamic conferences, university

socials, vegan fairs, or Uk Youth Climate Coalition activities.

Let us know if you know of similar events taking place across the country we would be very pleased to hear from anyone who would be happy to attend them to support the Permaculture Association in making sure permaculture becomes a household word.

Saving ethically supports the Permaculture Association!

The money you're saving today could be working towards a better tomorrow. Triodos are an ethical bank that use saver's money to finance organisations like organic food and farming businesses and pioneering renewable energy enterprises, recycling companies and nature conservation projects.

When a Permaculture Association supporter opens a Triodos savings account by going to www.triodos.co.uk/permaculture, and deposits £100 or more Triodos will donate £40 to us. In turn, we will use these donations to support the use of permaculture and a better future for us all. More info as well as

A big, warm welcome to our new member Peter Paul Antonelli!

Do you want to see your friend's photo in this spot? Give a gift membership, take a photo of them with their member's pack, and send it to us!



Group member spotlight

Encounters

Encounters Arts specialises in designing participatory arts projects & interventions that inspire creativity, dialogue & exchange between people of all ages & cultures. Running for ten years, Encounters has been using the transformational power of the arts to work creatively with thousands of people in arts, environmental, community, education, reconciliation, rehabilitation, and regeneration contexts.



A Little Patch of Ground in performance

Through performances, workshops, public interventions, co-authored exhibitions, publications and tailored events, the invitation is to re-look at who and how we are in the world at this time of crisis and opportunity and together to explore new stories to live by on individual, local, city wide and global levels.

One of Encounters projects is A Little Patch of Ground, which has been delivered since 2009 in communities across the UK from the East End of London to Plymouth in the South West and is devised by Ruth Ben-Tovim, Encounters creative director and Anne-Marie Culhane, associate artist with Encounters. It is an inter-generational food growing and performance project that culminates in a permaculture

inspired vegetable garden and a multi-media performance about relationships with the natural world.

A Little Patch of Ground takes place over a period of 20 weeks. A diverse inter-generational group of local residents (who have been age 4 to 80) meet weekly to create and grow their own vegetable garden, cook for each other and eat together. Through a variety of media and creative activities the group explores thoughts, feelings and ideas on food, resources, climate change, interdependence and sustainability. The project weaves together work in the garden framed by permaculture principles with creative and personal development work giving the participants both practical skills and developing their confidence in exploring their ecological identities in a community setting.

Participants explore the world as our shared home, with personal stories about moments of connection in nature, documentation and writing tasks about special places outdoors. Through creative writing, making and drama the group takes a journey together, inspired by eco-philosopher Joanna Macy's cycle of behaviour change: Gratitude, Despair, Seeing with New Eyes, Going Forth.

In the last weeks of the project, these transformative personal experiences are woven together into a public performance incorporating verbatim text, image, objects and movement to tell an intimate and personal tale about the joys and challenges of living alongside each other in this time of ecological challenge and opportunity.

www.encounters-arts.org.uk

Aquaponics & permaculture

Exploring creative ways to feed the world and teach future generations

One system, many functions

By Richard Smith

In this article, I want to talk about Aquaponics, its clever way to use natural cycles to produce food, and its inspiring potential for engaging children in learning natural sciences.

So first of all, what is Aquaponics? In Aquaponics, fish waste is used to make fertiliser instead of chemicals to feed the plants. It allows you to grow just about anything, whilst making intelligent use of natural processes. After hearing about the concept, I had been so impressed by the idea of growing food with fish waste that I was determined to try it out, even with limited physical resources.

Having been well trained in the permaculture approach to creating a new project, I was committed to planning my first aquaponic system to the finest detail. It had “been a while” since I actively applied permaculture principles. However, the planning process and thinking through the principles was a key element that made the project a success (see below). Chatting to the right people at the right time provided me with the great opportunity of installing a basic entry level





system with minimal outlay. Thanks to my use of permaculture thinking, and a few lucky circumstances, I quickly found just about everything I could need: a suitable site; financial, technical and moral support; access to organic seeds and even a supply of free fish (I was suddenly plunged into the world of fish care by the kind donation of 35 mixed goldfish)!

After a lot of researching and learning, I am now managing three hobby size aquaponic systems. Some of my favourite things to grow are spinach and leafy greens these days, as well coriander and thai basil. I am getting a few meals per month from the greens, which I am very pleased with. However, my personal main purpose is to explore different systems and hone my own skills with the fish, plants and the microbes. Management is needed continually, but through the clever use of resources I only need to spend two days per week (about 6 hours in total) in managing it.

< Caption?



Caption?

Aquaponics as a learning tool for children

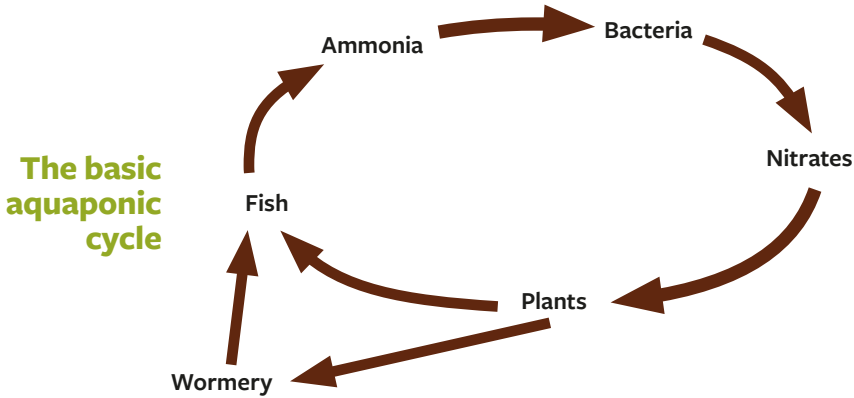
Aquaponics is a great example of a permaculture system, in which different elements support each other, and food is produced in a creative, sustainable way.

However, the multiple uses of Aquaponics extend beyond physical benefits: It holds incredible potential to improve on people care and learning, namely improving children's experiences of learning about science. It was my own experience of learning so much about water chemistry as part of the process, which inspired me to the idea of promoting Aquaponics as a teaching tool in schools. It provides a fun and hands – on medium to experience science in action, as well as a great opportunity for inclusion of disenfranchised learners. It is the ideal component for the teaching of a wide range of physical, biological and chemical topics. When the tasks involved are broken down further, it comprises a wonderful set of skills related to physics, biology, chemistry, design and technology. The hardware is

straightforward but demands attention in setting up. If things go wrong it provides a great problem solving exercise, and as such, a great way to learn.

As a former science teacher, I know that it can be hard to motivate some students, and thus I get really excited about the opportunity this provides to inspire those learners who think they are not interested in science, but eager to learn about fish, fish keeping, or maybe have an interest in growing organic produce.

Others may enjoy learning about plumbing and engineering problems, chemistry related problems, water testing, temperature measurement, consideration of pollution issues, growing techniques that exclude disease and pest problems, or controlled environment horticulture. It allows children to get an awareness for the inter-connectedness of different fields of knowledge, which is an incredibly useful skill to them as the next generation of sustainable, and quite possibly, urban “food producers”. However, it also allows them to gain valuable skills for future lives and careers.



Taking it further

For those of the readership, who may be interested in trying out this integrated approach to producing plants and fish together, there is a wealth of information on the internet, a number of books written by practising Aquaponicists, and a growing number of enthusiasts that will probably be happy to spread the word of this rewarding and addictive approach to producing food, just about anywhere with limited resources.

Useful resources:

Web

<http://permacultureprinciples.com/principles/>

www.youtube.com/user/PermacultureArtisans?feature=watch

www.youtube.com/watch?v=CU9x_W9X-tM&feature=player_detailpage&list=PL4806F243C2788651

Books

Aquaponic Gardening: A Step-by-Step Guide to Raising Vegetables and Fish Together,
by Sylvia Bernstein

Backyard Fish Farming, by Paul Bryant



About the author

Richard is a member of the Permaculture Association, a former teacher at Warwickshire College of Agriculture and volunteer at the Heritage Seed Library based at Garden Organic, Ryton. He also works part-time at the local CSA and grows leafy greens and herbs in his aquaponics systems. In an attempt to propagate aquaponic know-how he has promoted and recently installed a custom built system in a local primary school for growing veggies for after-school cookery classes. Richard is happy to answer basic questions related to aquaponics and is open to offers of work related to permaculture and sustainable food production in order to raise funding for further projects.

Email him: transpire8@gmail.com



Permaculture events

The 2014 Permaculture Convergence: 12-14th September

We are very excited to announce that the venue for the 2014 convergence will be Gilwell Park in Epping Forest, London. The event will take place from September 12th to 14th!

Gilwell Park is the home of the Scout Association, and has 108 acres of rolling fields and woodland, with views over the Lea Valley. It has a range of accommodation including camping, dorms and en-suite double rooms, so you'll be able to choose the level of comfort and privacy that suits you best.

Gilwell Park will also be the venue for next year's International Permaculture Convergence, when we'll welcome as many as 600 permaculture designers, teachers and activists from all over the world. So this year's convergence is an opportunity to 'test drive' the venue, and for you to get familiar with it.

The fresh produce for the convergence will be supplied by OrganicLea, the LAND centre who's Hawkwood nursery is within 2 miles of the venue.

If there is anything you would like to see in the programme, or would like to offer a workshop or practical activity, please contact Joe: learn@permaculture.org.uk. Gilwell Park have mentioned that they would quite like a pizza oven, so if anyone wants to offer to build one as a practical activity, we'd love to hear from you.

If you are interested in being a member of the crew, please get in touch. We are particularly keen to hear from anyone who has experience of running children's activities.



Caption?

Book your place online today and benefit from an early-bird discount! For more info, see our homepage at: www.permaculture.org.uk

International Permaculture Convergence – Cuba 2013

The international conference and convergence attracted about 430 people overall with delegates from over 45 countries. The 3 day conference had a huge number of presentations, and a 'pop-up media team' is working to make them available online. The convergence was held by the beach, and after some extremely challenging torrential rain the programme got into full gear with

Caption? >



Thanks to everyone that helped raise sponsorship money for IPC Cuba. Collectively the international network supported 20 people to attend!

Robyn Frances has written a nice report at: <http://permaculture.com.au/articles/projects-travels/ipc11-cuba-report.html>

IPC UK 2015

Our plans to host the world of permaculture in September 2015 are moving along nicely. 18 months to go and we have the convergence venue (help us test it this September at the National Convergence!), and are a gnats whisker from signing the conference space too. The team is forming nicely and a hugely productive meeting was held at the beginning of February with contributions from Australia, France, across the UK and 8 people in a room in Leeds. Alongside a 2 day open conference and a 5 day convergence for Design Course graduates, there will be a host of IPC Edge Events, and we want you to help us organise them! Tours, visits, volunteer placements, courses and workshops – we want to unleash a month long festival of permaculture learning that can engage thousands of people. To get involved in the team, or find out about hosting an edge event, contact:

Alan: network@permaculture.org.uk

presentations from every continent over the 5 days. There were big debates about educational standards and permaculture enterprise, and a growing consensus that we need to organise ourselves more effectively as an international network. Research had a good focus and the Association presented results from the International Research Survey, with an international group now forming to take this forwards. The local project tours were a huge highlight with visits to gardens, ‘organiponics’ (like very organised collective urban allotments), farms and the world’s only permaculture car-wash!

Member Spotlight

Becoming a Permaculture Ambassador

By Wenderlynn Bagnall

First, let me introduce myself: I am a member of the Permaculture Association, and recently became a Permaculture Ambassador, too.

I am carrying on the community work to build up a low impact fledgling education and community project I share with my husband in North Devon. For 2 years we've worked hard managing the land by hand to make it accessible for us and others. It's been hard work but we are slowly beginning to see things take shape.

Our vision is to reconnect people to themselves and nature through workshops and courses, sharing our skills and learning ourselves along the way. We want to focus on wellbeing and the simple pleasures that being in the outside can bring.

I have always been interested in and cared about 'community'. As a transition member I love the collective inspiration that comes from organising events and seeing them happen. The best part is the elated feeling of collaboration at the success of the event.

I have always believed that if we all pulled together, we can change things, whoever we are, whatever it is. I have seen proof and know it to be true.

Volunteering for the Permaculture Association has expanded my experience of community by being part of something bigger, something world changing. It feels good to know that just doing my little bit is good enough and that it helps others who are doing their bit too who are focused on the same journey.



Wenderlynn Bagnall

My experience of volunteering for the Association is a friendly one. It is good to know that it is not just the role I play but also the ideas I have that everyone has been supportive of and no pressure has been put on me to do more. The Association is always keen to have volunteers and are very appreciative of people giving up their time.

The idea of volunteering for the Association came out of the Diploma in Applied Permaculture Design which I have just started. I wasn't sure how I could help but none the less I contacted them, letting them know what skills I had and whether they could use them. It wasn't long before they got in touch with me and after a very friendly chat.....well.....I was hooked. I hope, in time, to do more for our Association, but for now I know that what I do is enough to give them the chance to help others.

To find out more about Wenderlynn's project in Devon, please visit:

www.northdevonpermaculture.com

twitter: @wisttreewood

facebook: [facebook.com/
NorthDevonPermaculture](https://www.facebook.com/NorthDevonPermaculture)

ecotricity

Switch to **Ecotricity** with the Permaculture Association and they will donate up to £60 to the charity – not only that, but you will receive a **FREE** Cafedirect Hamper!

Just email Nicola at: membership@permaculture.org.uk and she will send you a link to switch and claim your free hamper.



About Ecotricity

The World's first green electricity company:

Green Electricity didn't exist in the world back in 1996. When they offered it for the first time, they became not just Britain's but the world's first Green Electricity company – and kick-started the now global Green Electricity movement. Their mission was and remains to change the way electricity is made and used in Britain.

Conventional electricity is responsible for 30% of Britain's carbon emissions – it's our biggest single source as a nation – and therefore the biggest single thing we can change.

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Permaculture Scotland



The development of Permaculture Scotland continues apace. The ScotLAND project has now yielded six agreed sites which are up and running and approved places where people can go and see permaculture in action. A further eight sites have been surveyed, some of which are ‘Learner’ sites meaning they are in development supported by Association tutors, and some are still going through the assessment process.

The Permaculture Scotland Working Group held an all day meeting in Glasgow in February which has followed up on a range of goals for the year ahead. A great deal of attention was given to creating a positive future for permaculture in Scotland. This includes building policy positions and gaining publicity for the work and achievements of our members! The Scottish working group also has given considerable attention to fundraising, and looked at how we can develop links with other relevant organisation. Emphasis is being given to developing

communications with the membership. There will be a stall at this year’s Eden Festival in Dumfries and Galloway where friends old and new will be welcomed.

Our big outing for the year will be our National Gathering at Urban Roots in Glasgow on Saturday June 7th from 10am with workshops, the AGM, and winding up with a Ceilidh up to the witching hour...

Book online:

permaculture.org.uk/scotland

Courses and the diploma programmes remain busy. Congratulations to Rachel Bailey as the first Diploma winner of 2014! A great event was held at Kilmartin to celebrate her achievements.

Various sites will be holding events for the International Permaculture Day on Sunday 4th May. Check out the events and courses section of the website for details. Another target for the year is to support and help create more local groups. If you have one, or are looking for allies to help create one, please contact Lusi Alderslowe on scotland@permaculture.org.uk

If you want to see all the great stuff that’s happening, do get out to ScotLAND open days, courses and the gathering and meet lots of like minded people. Have a great summer!



Paramaethu Cymru Permaculture Wales



Paramaethu
CYMRU • WALES

Permaculture Principles Poster

Ces y Canllawiau Paramaethu ei chyfieithu gan fardd parchus a ffarmwraig Nesta Wyn, Abergeirw, a'i fam yn 2012. Mae hysbyslen o'r canllawiau newydd ar gael yma:

http://permacultureprinciples.com/downloads/Pc_Principles_Poster_CY.pdf

Mae'r cyfieithu llawn, yn ffurf ddwyieithog, ar gael ar wefan paramaethwr Chris Dixon, cymydog Nesta Wyn: www.konsk.co.uk/cymru/cymru.htm#adnodd

The Permaculture Principles were translated into Welsh in 2012 by respected poet and farmer Nesta Wyn, Abergeirw, and her mother. A poster of the principles is now available in Welsh from:

http://permacultureprinciples.com/downloads/Pc_Principles_Poster_CY.pdf

The full translation is available in a bilingual format on permaculturalist Chris Dixon's website: www.konsk.co.uk/cymru/cymru.htm#adnodd

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your
world**

Website developments

Jane Powell has recently joined the Welsh group and is keen to support the development of a bi-lingual permaculture website. To start off with we will update and improve the existing pages on the main site, but we'd like to develop a stand-alone site soon. We'd love to hear from Welsh members about what they would want from it. Contact wales@permaculture.org.uk with your ideas, or see the Permaculture Wales facebook page.

Get involved

If you have time and energy to help support the development of Paramaethu Cymru – either as a working group member, or as a volunteer with specific tasks – please do get in touch via wales@permaculture.org.uk

Mae eich angen ar
Bermaddiwylliant
Cymru!

Ydych chi'n byw yng Nghymru?
Oes gynnoch chi diddordeb
mewn helpu ddatblygu
rhwydwaith Cymraeg?

Members

Business members

ACS Distance Education, PO Box 4171 Stourbridge DY8 2WZ • 0800 328 4723 • www.open.ac.uk

Alara Wholefoods, 110–112 Camley Street, London NW1 0PF • 020 7387 9303 • alexsmith@alara.co.uk • www.alara.co.uk

Atlantic College, St. Donats Castle, Llantwit Major CF61 1WF • 01446 799 016 • andrea.deere@atlanticcollege.org

Ecological Land Cooperative, The Hub, 5 Torrens Street, London EC1V 1NQ • 07963 955 338 • zoe@ecologicaland.coop

Encounters Arts Re-economy Centre, 13 Leechwell Street, Totnes TQ9 5SX • 07870 698333 • admin@encounters-arts.org.uk

Feagour Designs, 16 Fairway, Haddington EH41 4EP • 07710 432560 • peter@feagourdesigns.co.uk • www.feagourdesigns.co.uk

Geyer Estates Ltd, 20 Tavistock Place, London WC1H 9RE • 0207 8379627 • info@stathanshotel.com • www.stathanshotel.com

HOLOS Form Ltd, 25 Upper Drive, East Preston, Littlehampton BN16 1QN • 07961 397017 • rod@holosform.com • www.holosform.com

Hulme Community Garden Centre, C/o The Claremont Centre, Rolls Crescent, Hulme, Manchester M15 5FS • 0161 227 8198 • kath@hulmegardencentre.org.uk

Lets Live Local, Meikleholmside Cottage, Farm Annan Water, Moffat DG10 9LS • 01683 221403 • jane.gray@ukgateway.net

Permanent Publications, The Sustainability Centre, Droxford Road, East Meon GU32 1HR • 01730 823311 • www.permaculture.co.uk

Soil Association, South Plaza, Marlborough Street, Bristol BS1 3NX • 0117 9290661 • pbenfield@soilassociation.org
T4 Sustainability Ltd, 1A Manners Court Manners Avenue, Manners Industrial Estate, Ilkeston DE7 8EF • 08454561332 • info@t4s ltd.co.uk • www.t4s ltd.co.uk

The Bay Trust, Pines Garden, Beach Road, St Margarets Bay, Dover CT15 6DZ • 01304 851737 • julie@baytrust.org.uk • <http://baytrust.org.uk>

The Fleetwood Initiative, Flat 3, 78 Luke Street, London EC2A 4PY • 07765 893352 • info@fleetwoodinitiative.org
Urban Roots Initiative, Torylen Community Base, 8–34 Prospect Hill Square Glasgow G42 0LE • 0141 613 2766 • projects@urbanroots.org.uk • www.urbanroots.org.uk

Group members

London

Forest Farm Peace Garden, 98–100 Ilford Lane, Ilford IG1 2LD • 07913089979 • info@forestfarmpeacegarden.org • www.forestfarmpeacegarden.org

Hackney Community Tree Nursery, and Edible Forest Garden 155 Chatsworth Road, London E5 0LA • 0777 355 3623 • hmug@hmug.org.uk

London Permaculture Network, 20 Tavistock Place, London WC1H 9RE • 0207 8379627 • info@londonpermaculture.com

Green Peppers Orchard and Forest Garden, 156 St Paul's Crescent, London NW1 9XZ • 020 7267 9586 • officemlcc@yahoo.co.uk • www.maidenlanece.org

South West of England

High Heathercombe Centre, Heathercombe Brake Manaton, Newton Abbot TQ13 9XE • 01647 221425
Landmatters Permaculture Project, Allaleigh Lane, Allaleigh Blackawton, Totnes TQ9 7DL • 01803 712718 • landmatters@gmail.com • www.landmatters.org.uk

Ourganics Evolving Systems, Litton Lane, Litton Cheney, Dorchester DT2 9DH • 07900963228 • patbowcock@coopnet.net

Sims Hill Shared Harvest, 3 Burlington Road, Bristol BS6 6TJ • 07973256572 • simshillsharedharvest@googlemail.com • <http://simshill.co.uk>

Affinity Woodland Workers Coop, Ltd Steward Community Woodland, Moretonhampstead, Newton Abbot TQ13 8SD • 01647 440233 • community@stewardwood.org • www.stewardwood.org

Himalayan Permaculture Group, 8 Copper Beeches, Close Much Dewchurch, Hereford HR2 8DX • 01269 822786 • cevans@gn.apc.org • www.himalayanpermaculture.com
Shift Bristol, 20 Winscombe Close, Keynsham BS31 2HR • bristol_permaculture@yahoo.co.uk

South East of England

Brighton Permaculture Trust, c/o 40 St Dunstons Road, Worthing, Brighton BN13 1AB • 07766 428 304 • mulreany@btinternet.com • www.brightonpermaculture.org.uk

Petworth Community Garden, 3 Council Cottages, Heathend, Petworth GU28 0JQ • 01798 342758 • petworthcommunitygarden@hotmail.com • www.petworthcommunitygarden.org.uk

The Sustainability Centre, Droxford Road, East Meon, Petersfield GU32 1HR • 01730 823166 • info@sustainability-centre.org • www.sustainability-centre.org

Sutton Community Farm, 40a Telegraph Track, Wallington, Surrey SM6 0SH • 07722 156097 • sam@suttoncommunityfarm.org.uk • www.suttoncommunityfarm.org.uk

Want others to find your organisation's name here? Contact Nicola and find out about all the benefits of a group or business membership: membership@permaculture.org.uk

Transition, Marlborough C/o 4 Orchard Road,
Marlborough SN8 4AU • 01672 514652 •
www.transitionmarlborough.org

East of England

Transition, Cambridge Permaculture Group c/o 124 Foster
Road, Trumpington, Cambridge CB2 9JP • 01223 840 602 •
cradle@phonecoop.coop

East Midlands

The Green Backyard, Thorpe Hall Workshops,
Longthorpe, Peterborough PE3 6LW • 07834 815943 •
sophie@thegreenbackyard.com •
www.thegreenbackyard.com

The Haven, Clump Hill Farm, Hainton Market, Rasen
LN8 6LT • 07989 694 842

The Undle Project, 25 Rushes Lane, Lubenham Market,
Harborough LE16 9TN • Colne Valley

Indigo Brave Land, Wensor Bridge Farm, Shelton,
Newark NG23 5JQ • info@indigobrave.com •
www.indigobraveland.com

West Midlands

Highbury Orchard Community, CIC 73 All Saints Road,
Kings Heath, Birmingham B14 7LN • lizp@blueyonder.co.uk

The Celtic Earth Project, 15 Wordsworth Ave, Leyfields,
Tamworth B79 8BZ • admin@thecelticearthproject.org.uk

Urban Space, 117 Margaret Road, Leicester LE5 5FW •
ben@urbanspace.org.uk

North West of England

Growing with Grace, Clapham Nurseries, Station Road,
Clapham, Lancaster LA2 8ER • 01524 251723 •
info@growingwithgrace.org.uk •
www.growingwithgrace.org.uk

New Shoots, c/o 21 Poppyfields, Hesketh Bank, Preston
PR4 6TJ • +44 441772814636 •
friendsofnewshoots@hotmail.co.uk

Offshoots Permaculture Project, c/o Towneley Hall Art
Gallery and Museum, Towneley Homes Road, Burnley
BB11 3RG • 01282 450270 • info@offshoots.org.uk •
www.offshoots.org.uk

North East of England

Abundant Earth, 12 Goodwell Lea, Brancepeth DH7 8EN •
07906439084 • wilf.abundantearth@gmail.com

Scotswood Natural Community Garden, John Marley
Centre, Whickham View, Scotswood, Newcastle-upon-
Tyne NE15 6TT • 0845 4581653 • kate@sncg.org.uk •
www.sncg.org.uk

Lincoln Permaculture Design Course, 6 Hawthorn Road,
Lincoln LN2 4QX

Old Sleningford Farm, North Stainley Ripon HG4 3JB
• 01765 635202 • rachel@oldsleningford.co.uk • www.
oldsleningford.co.uk

Specialist Arts College, Gillroyd Lane, Linthwaite,
Huddersfield HD7 5SP

The Haven, Clump Hill Farm Hainton Market,
Rasen LN8 6LT • 07989 694 842

Yorkshire & Humberside

Ecclesall Woods Craft Courses, Abbey Lane, Sheffield S7
2QZ • 07976964051 • www.ecclesallwoodscraftcourses.
co.uk

Incredible Edible, Holmfirth 34 Holmclose Holmbridge,
Holmfirth HD9 2NJ

Wales

Centre for Alternative Technology, Machynlleth SY20 9AZ
• 01654 702400 • catriona.toms@cat.org.uk

Grow More Project, 33 Affrica Gardens, Gabalfa, Cardiff
CF14 3BT • http://farmcardiff.com/sustainablecardiff.com

Lampeter Permaculture Group, c/o Wern Fach Talsarn,
Lampeter SA48 8QY • 01570 471717

South West Wales Permaculture Network, Uplands
Farm, Llandawke, Laugharne SA33 4RE • 01994427310 •
aandpstopp@googlemail.com

Scotland

Tayside Recyclers, South Dunhope Mill, Douglas Street,
Dundee DD1 5AN • 01382 228986

Disability Awareness Group, 13 The e-Centre, Cooperage
Way, Business Village, Alloa FK10 3LP • 01259272018 •
alisterdag@gmail.com

East Anglia

Ana Biles, Sage House 35 Westerfield Road,
Ipswich IP4 2UE • chrisanables@aol.com

Apricot Centre, 83 Hungerdown Lane, Lawford,
Manningtree CO11 2LY • 01206 230425 •
info@apricotcentre.co.uk

Forest Farm Peace Garden, 98–100 Ilford Lane, Ilford IG1
2LD • 07913089979 • info@forestfarmpeacegarden.org •
www.forestfarmpeacegarden.org

Green Backyard, Thorpe Hall Workshops, Longthorpe,
Peterborough PE3 6LW • 07834 815943 • sophie@
thegreenbackyard.com • www.thegreenbackyard.com/

Peoples Community Garden, Activlives c/o Activlives,
Activgardens 1 Cornhill, Ipswich IP1 1DD • 01473261112
• susannah@activlives.org.uk • www.activlives.org.uk/
activgardens

Triangle Community Garden, 23 Priory Way, Hitchin SG5 4
9BJ • 01462 621585 triangle.garden@ntlworld.com • www.
triangleregarden.org

Other

Les Moulins de Bousset, Bousset, Chiddes 58170 • www.
moulinenmorvan.com

Permaculture Association (Isle of Man) Native Oak Group,
Summer Hill Road, Jurby M7 3BR • 07624 480882 •
permaculture@manx.net • www.permacultureiom.org

Permaculture Research Foundation, Malta 361 Triq Ghajn
Zejtuna Mellieha MLH 2709 • permaculture.malta@gmail.
com

Permaculture Institute of Vale da Lama, Quinta do Vale da
Lama • Rua Beira Mar N.1 • Burgau • +351 282697610

Join us!

More and more people are using permaculture to design sustainable systems across all aspects of their life that improving ecosystem health – rather than fight against it. With ever increasing concerns about climate change and our environmental impact, permaculture provides solutions for positive change!



People like you can and are making a difference, so join us today

The Permaculture Association is the Charity in the Uk working to:

Improve Access to Permaculture

Enhance collaboration within the permaculture network

Increase knowledge of the benefits of permaculture within society

Develop permaculture theory and practice

We support:

A network of over 60 LAND centres demonstrating permaculture in action

Networking at members events such as the biannual National Convergence

Our members to promote their permaculture courses, events and work via our website

Over 283 apprentices registered onto the Diploma in Applied Permaculture Design

Join us today and benefit from your quarterly members newsletter Permaculture Works, contacts in your area, website login, learning opportunities, discounts, members events and more.

Join the Association and get involved!

First name

Last name

Address

Postcode

Telephone Email.....

I would like to join as:

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 Group £40
 Concessions £15
 Business £80
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Name of your bank

Address of your bank

Account number..... Sort code..... Account name

Instructions to bank

You can also add a regular donation amount to your standing order.

Please pay now & monthly/ quarterly/ annually (delete as appropriate) on the same date, the sum of £.....

to: Unity Trust Bank, 9 Brindley Place, Birmingham B1 2HB, for the account of Permaculture Association (a/c 20190615, sort code 08-60-01) using reference: *initial and surname*.

Name

Address

To enable networking, members can choose to share their contact details with each other, please confirm which details you are happy to share:

- None
 Just email
 Address and email

Please complete the form and post to:

BCM Permaculture Association, London WC1N 3XX

Email: office@permaculture.org.uk

Tel/Fax: 0845 458 1805 & 0113 230 7461

Or join online at www.permaculture.org.uk/join



Opportunities

Become a Permaculture Ambassador!

Are you passionate about permaculture? Would you like to tell the world about it whilst practising valuable skills such as creative writing, organising events or photography? Then becoming a Permaculture Ambassador might be just the right thing for you! To find out more, visit www.permaculture.org.uk/get-involved/permaculture-ambassadors-programme, or contact Anna: communicate@permaculture.org.uk

OrganicLea Opportunities

Organiclea is looking for 9 people to fill our unique trainee roles for the 2014 growing season. Each role will take on a specific area of responsibility and develop specific skills and experience in community food growing, community outreach work, local food distribution and horticulture training.

These roles are aimed at people who want to develop skills to make a livelihood from community food work. The roles are voluntary and will run for 9 months from April to December 2014.

All of 7 the trainees taken on in 2013, are now engaged in further training or have found employment in this sector, including: paid apprenticeships, developing their own sustainable fishing project, Gardener for a Primary School, Coordinator of the Community Food Growing Network and 2 of them are now working at Organiclea. www.organiclea.org.uk/2014/02/trainee-roles-2014

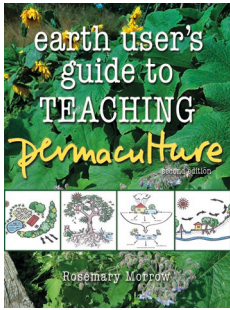
Publishing work opportunity in permaculture

Permaculture magazine/Permanent Publications are offering an exciting and rewarding publishing assistant internship opportunity. Experience will be offered in all aspects of print and digital publishing on global platforms in a cutting edge industry. This could lead to full time employment for the right person. Candidates will need to be computer competent, have excellent English language and communications skills, an eye for exacting detail and an ability to finish work to the highest standard. Full training will be offered. Permaculture Design Course graduate preferred. Please send CV to: tim@permaculture.co.uk

Internship opportunities at the Permaculture Association

The Chief Executive is looking for a range of support to enable the Association to make better use of the many opportunities available. Volunteers will be able to either: provide regular support over a period of at least three to six months, for at least one day a week; or, shorter, more intensive support for one to three months, for three to four days a week. Tasks could include project development/fundraising/project management/scheduling and arranging meetings/etc. Reasonable expenses can be covered, and accommodation for shorter more intensive work is also possible. Regular supervision and learning plan included. Contact: **Cath (admin@)** to express your interest.

Book review



Earth User's Guide to TEACHING Permaculture (2nd Edition)

By Rosemary Morrow

Publisher: Permanent Publications

ISBN-13: 9781856231459

Rosemary Morrow is an internationally renowned permaculture designer and teacher. She has worked in a diverse range of contexts and has particularly extensive experience working in the global south. In creating this book, she has consulted with several other respected permaculture teachers including Robyn Clayfield and Carolyn Nuttall (co-author of 'Outdoor Classrooms').

This book is a guide for people who are already teaching permaculture, or who want to learn how to. It has been substantially revised since the first edition, published 17 years ago, bringing it up to date with developments in the field.

The book focuses on teaching the 72-hour Permaculture Design Certificate (PDC) course to adult learners. The reader is encouraged to use the book as a starting point, and to adapt the content to their own context and teaching style.

In a 'letter to teachers' Morrow gives some advice on how to engage adults through an

approach that focusses on their needs. It offers a useful list of do's and don'ts, which all relate to permaculture's ethics. It goes on to cover the PDC curriculum in detail, giving teachers a range of tools and resources for each topic.

The overall pattern of the book is very clear and accessible: sections correspond to key themes of the PDC, and are broken down into units of the course. The order and flow of units is well considered, and Morrow offers her own timetable and course outline as an example.

Each unit starts out with a very clear pattern of giving conceptual context, setting out goals and learning outcomes, graphics, glossary of key terms and an explanation of how the content relates to the ethics and principles.

I found that subsequent sections of each unit's text were less clearly structured, as subject information and student activity descriptions were sometimes intermingled. I feel that a better differentiation would make the book more accessible and helpful to teachers, particularly if needing to refer to it under the pressure of the classroom environment. I also found quite a few typos and wondered if more time could have been given to proof-reading.

These are, however, minor criticisms. All in all, Rosemary Morrow's profound insights into permaculture and how to teach it shine through. Her writings are anchored to the ethics and principles of permaculture, and offer a great range of methods to teach the key concepts of the PDC. Overall, this book is a great success, and would make an invaluable addition to every permaculture teacher's library.

Joe Atkinson

Available from www.green-shopping.co.uk
for £14.96

Permaculture Explained: Zones & Sectors

By Rachel Bodle

I recently re-located from West Norfolk due to changes in my personal life, which meant that I had to withdraw from a number of activities and groups I had been engaged in. Thinking about zones helped me to manage and be clear about this process: What could I discontinue straight away? What preparation was needed if I was to hand activities on to someone else? Using the permaculture tool of “zoning” informed my thinking about energy and resources available to help me.

Always applying permaculture principles to my reasoning, I repeatedly reviewed my activities, exploring different options for handover, reconsidering what to continue and recognising where my wellbeing was linked to continuing or discontinuing.

After some practise, it was as if zones and sectors were mapped onto the territory of my decision-making: the project became an exercise in navigating that territory. The design that emerged was a ‘general purpose’ flowchart for the process I needed to go through for each area of activity. I doubt that I would have been able to achieve such a smooth withdrawal without recognising zones and sectors.

Zones are a way of intelligently organizing elements of a design. Frequently used and needed elements are located close to the core (zone 0, often referred to as “self” or “home”), and elements that are used less frequently are placed in zones further away (zone 5 is often referred to as wilderness). Zones are about positioning things appropriately, and making most use of the resources and energy available.



Rachel in her garden

