

biosciences outreach & engagement symposium

#BiosciencesForAll

@RoyalSocBio









Introduction

Professor Jeremy Pritchard FRSB University of Birmingham









Introduction

Professor Heather Widdows
University of Birmingham









Engaging with local communities and hard to reach audiences









Dr Sue Howarth FRSB Royal Society of Biology West Midlands branch

Some Examples of Outreach Activities for Non-scientists That Worked Well

Dr Sue Howarth
Outreach and Engagement Symposium
University of Birmingham
14 November 2018





March 2018 NEC Birmingham



Why did this work well?

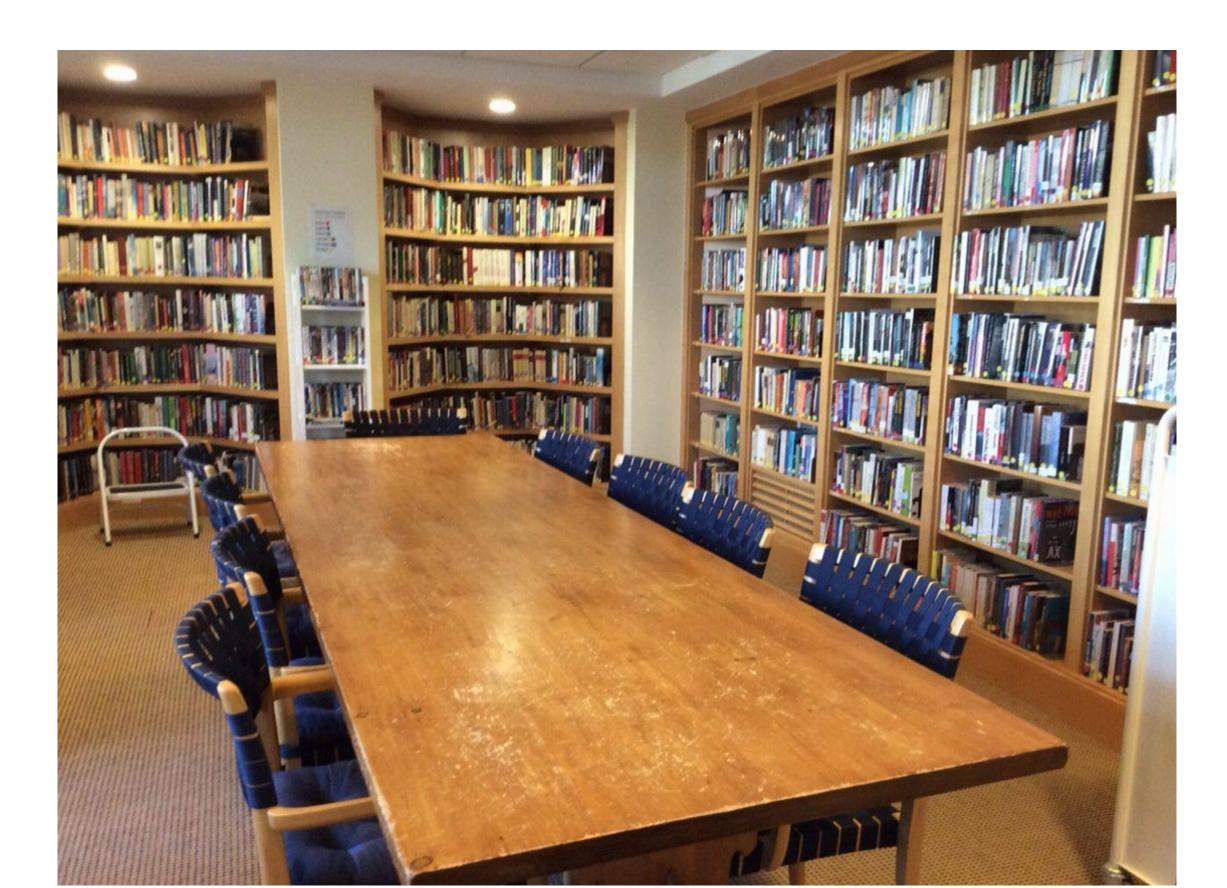
- Interactive
- Made a noise
- Made a mess
- Fun
- Had a genuine scientific link
- Works at different levels simple to complex

Mini chocolate Easter eggs

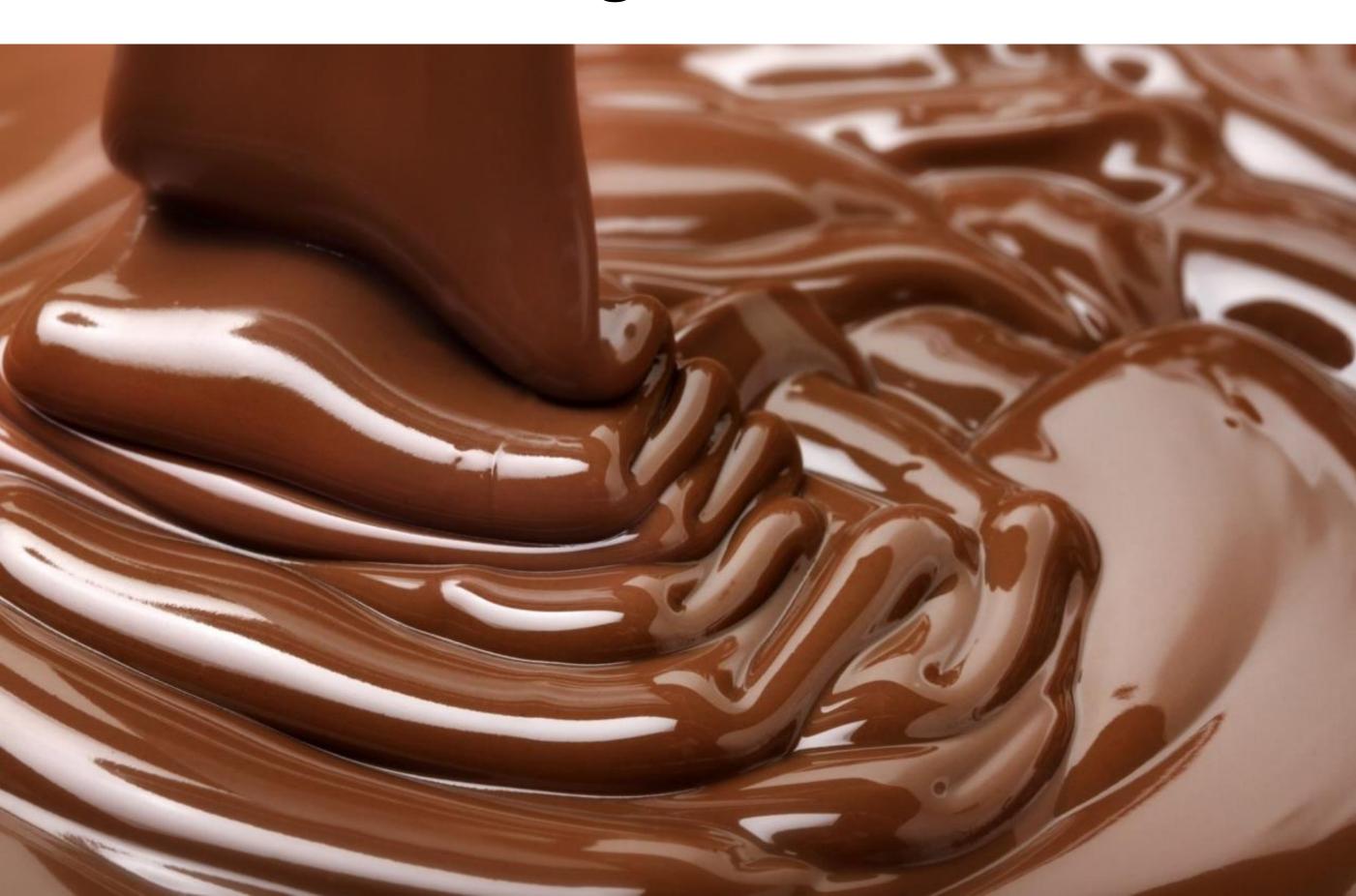


Ruth Pratchett Education Coordinator

Libraries — to reach communities



Melting chocolate













Why did this work well?

- Chocolate
- Free
- Heart of the community
- Fun
- See the science
- Local
- Stickers
- Inexpensive kit
- Chocolate

Cheltenham Summer 2018





Beth Anderson Education Coordinator, South West

Sandford Park, Cheltenham





THE CHEMISTRY OF A CHILLI

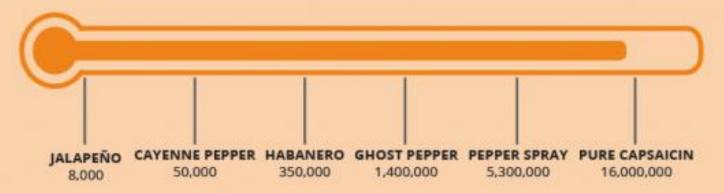
CAPSAICINOIDS

The spiciness of chillis is due to the presence of compounds called capsaicinoids. The two compounds above are the main capsaicinoids in chilli peppers. They cause a burning sensation when they come into contact with mucous membranes, due to their interaction with pain and heat sensing neurons.

Capsaicin is also used in some brands of pepper spray, and studies have shown it may be capable of killing prostate and lung cancer cells. It is toxic in large quantities.



THE SCOVILLE HEAT INDEX



The Scoville scale is a taste detection based method for rating the heat of chilli peppers. A measured amount of pepper extract has sugar added to it incrementally until the heat is undetectable through taste. Though it is an imprecise method, it has been estimated that 1 unit corresponds to 18µM.





Curds



Whey



Why did this work well?

- Interactive
- Competitive
- Fun
- Appealed to all ages
- See the science
- Part of another event
- Encouraged use of scientific terms

To Make Outreach Work:

- Fun
- Interactive
- The science must be sound
- Ideas that people can relate to
- Going beyond science-related venues
- Extension / follow up material e.g. website on stickers









Hannah Renshall Foyer Federation





OUR GOALS



Our Goals

That every young person can thrive with an opportunity to realise their power and purpose

To see young people's strengths, talent and value recognised by society

That all young people, especially those who can't live at home, get the same investment in their future as other young people

That the concept of Foyers are promoted and championed in the UK

That Foyers receive the support, quality assurance and accreditation they need to be sustainable entities and offer the best 'deal' to young people





Young People

Are part of the Foyer Federation with their:

TALENTS that can provide solutions

EXPERIENCES to be drawn on

ENERGY that spark change

Foyers

Offer young people:

A good place to live

LEARN

A learning offer that builds confidence and skills

WORK

Access to relevant work opportunities

Something



Advantaged

The Foyer Federation

Develops good practice and impactful services in Foyers through:

Innovation

Quality development

Creating tools and delivering training

Young People

Who could no longer live at home are:

Inspired, respected, involved and engaged

Progressing and moving on

Developing their talents, strengths and skills



Provide a **home** and moving on support THE FOYER **Financial APPROACH** Health: fitness, management support food and mental health Support Personal development Learning: A wide range of learning and life skill development. **Employment** and **enterprise** experiences, volunteer and apprentice experiences. Develop **Social Skills**

OUR MEMBERS

Over 5,000 young people supported each year (45% are female)

70+ Foyer Across the UK

Ireland Cork

Scotland

Aberdeen

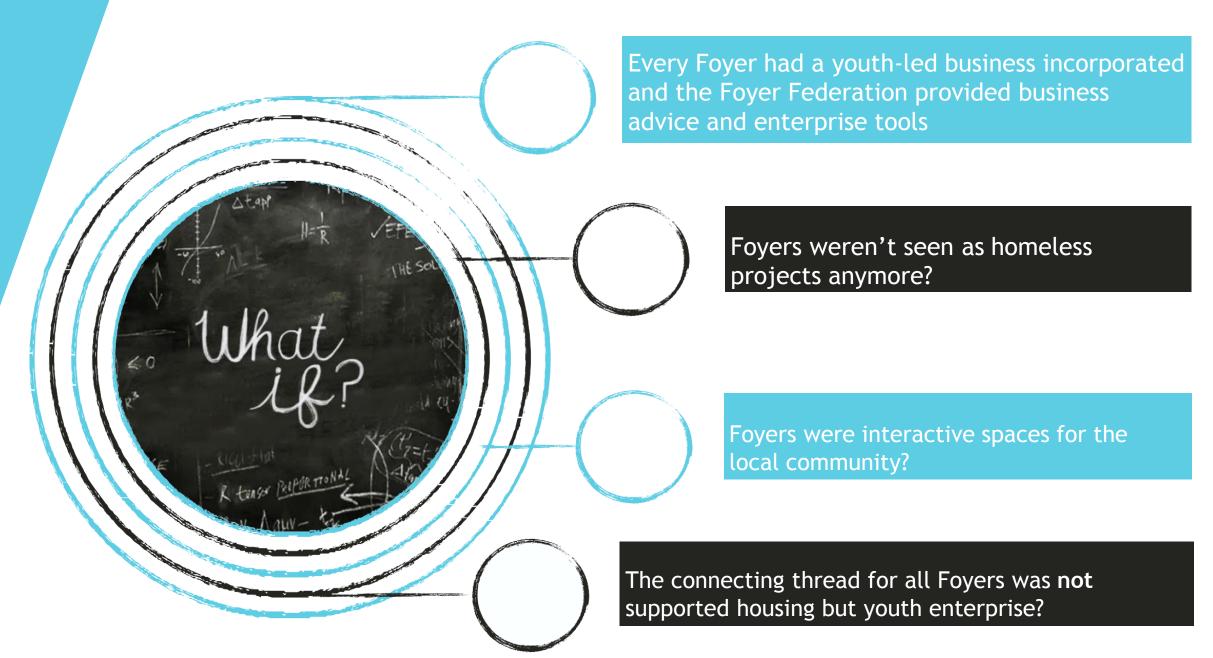
North West				
Birkenhead	Liverpool			
Blackburn	Manchester			
Chester	Salford			
Crewe	Skelmersdale			
Cumbria	Warrington			
Birkenhead	Wigan			

	Midtarias			
North East	Banbury			
Batley	Birmingham			
Darlington	Derby			
Doncaster	Dudley			
Grimsby	Hereford			
Halifax	Leominster			
Newcastle	Ludlow			
Sheffield	Ross			
Christie . Warfull				

Cizeral				
South East		South West		
Abingdon	Crouch End	Kent	Andover	Penzance
Aldershot	Croydon	London	Bath	Plymouth
Basildon	Enfield	Newhaven	Bodmin	Poole
Basingstoke	Epsom	Romford	Bridgwater	Redruth
Braintree	Gosport and Fareham	South Wimbledon	Bristol	Swindon
Brentwood	Hatfield	Wisbech	Cheltenham	Torbay
Brighton	Havant	Worthing	Exeter	Truro
Crawley	Huntingdon		Liskeard	Weston-Super-Mare



THE FUTURE OF FOYERS



THE FUTURE **OF FOYERS**

Examples

Sanctuary housing work and life

St Basils Live & Work Scheme

Help Bristol's Homeless

Y:Cube







STBASILS.ORG.UK





University Hospitals Birmingham



THE FOYER FEDERATION FAMILY





























CASE STUDY NATASHA

2017 inspiration award nominee

Natasha, age 28, Sheffield Foyer, North East England

Natasha got into some financial difficulty after a strained relationship with family and her mum had passed away from cancer when she was a teenager.

She started living in a Foyer in early 2013 and after telling a friend she wanted to start boxing, the Foyer helped her get the equipment she needed.

Natasha worked so hard at her boxing career that in less than 5 years she made it into the Great Britain Boxing Team.

Natasha's future

She has won numerous national titles, will represent Great Britain at the Commonwealth Games, Worlds and Olympics and is currently the female 75kg European Champion.



CASE STUDY KYLE

2017 inspiration award winner

Kyle, age 25, Quay foyer, South West England

After the relationship with his family broke down, Kyle came to Quay Foyer seeking independence and support to develop. Kyle left the Foyer after two years to join the army. After a while, Kyle left the army and his circumstances kept changing, with poor mental health resulting in suicide attempts and recurring homelessness.

He came back to the Foyer, knowing it to be a supportive place. After successfully moving on from the Foyer a second time, Kyle broke his collar bone, which led to him losing his job and becoming homeless.

Returning to the Foyer a third time, Kyle began working and rebuilding his independence with personalised support from staff, ultimately becoming a Foyer Ambassador by helping deliver activities and peer mentoring others.

Kyle's future

Now with his own flat, he visits the Foyer weekly, as part of his apprenticeship, meeting residents, providing 1-1 support and coordinating activities.



CASE STUDY AHMED

2017 unsung hero award winner

Ahmed, Weston Foyer, South West England

Ahmed came to the UK after fleeing Eritrea and moved into the Foyer in August 2016. The Foyer provided him with a sense of safety and stability where he has been able to build relationships and embrace opportunities to develop himself.

He quickly proved to be a considerate, giving and hard-working resident and has gone out of his way to support the three other asylum seekers living at the service. Despite the real struggles they have experienced, each of the resident asylum seekers are attending college and trying to make the most of the opportunity, whilst it is available to them, to improve their situation and build a future - a lot of this is thanks to Ahmed helping them integrate.

Ahmed's future

In July 2017 Ahmed learned his request for asylum has been granted, giving him security, stability and the chance to look to the future in a calmer environment. In September, Ahmed will start another year at Bristol College, where he studies IT, having already completed a course in English. To Ahmed the Foyer is his family.



CONTACT US



To join more young people and us on our journey, please contact:

Alieu Fofanah

Head of Partnerships

Email: alieu@foyer.net

Mobile: 07940 309 843









Hephzi Tagoe MRSB Royal Society of Biology Beds, Essex and Herts branch

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Basildon, Essex BME Community





Workshop and events for parents and kids

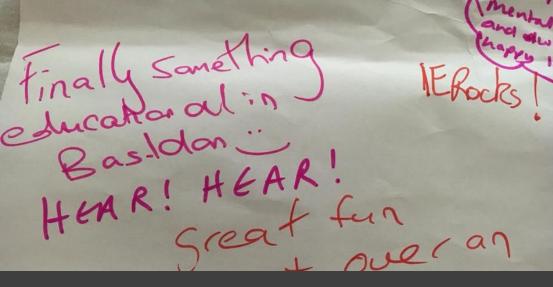
At least you will be pleased to know that you're making an impact on the kids! has always been into Law but after yesterday said she's thinking about engineering!

Thank you said I should thank you because it was really good. And that was his first time on virgin train









COMMUNITY EVENTS

Hephzi Angela Tagoe

hephziangela@ghscientific.com

twitter/instagram: @hanat_akordor









Jean Wilson MBE CBiol FRSB

Royal Society of Biology North Western branch

@RoyalSocBio | #BiosciencesForAll

Community Engagement North Western Branch

Jean Wilson MBE C.Biol FRSB





Partnership Engagement

























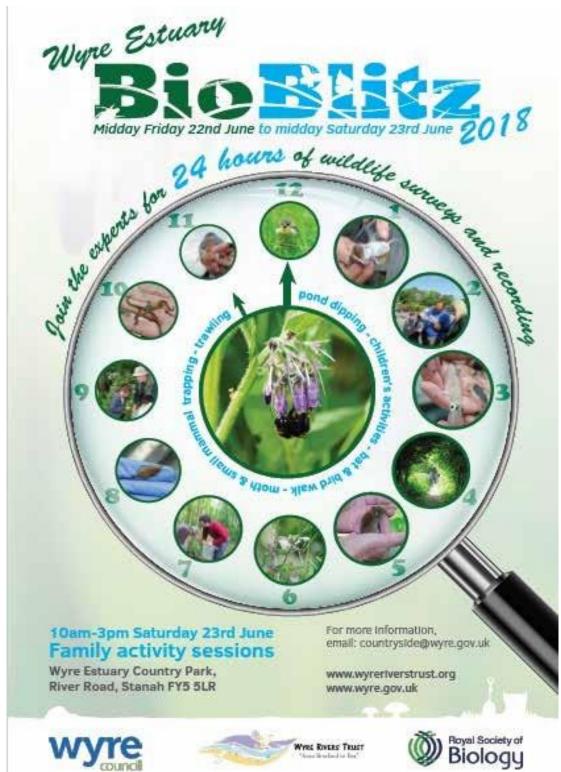




Event Organisation

Funding:

- Royal Society of Biology
 - Additional Branch funding
- Wyre Council
- Wyre Rivers Trust
- Match Funding





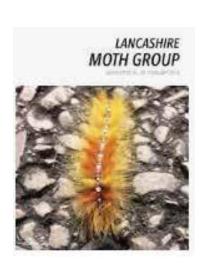




The Specialists







Bat Conservation Trust





















Marketing





Educational Engagement

BioBlitz: Friday June 22nd 2018. SCHOOLS' Timetable

Times	10,45	11.45	12,30	13.30
Activities	11.45	12.30	13.30	14.30
RSB Owl Pellet Dissection	Α		С	E
Wood Craft Bird Boxes etc	В	Lunch	D	F
Painting from Nature	С	y and	E	Α
SEALIFE Sharks	D	Ceremony	F	В
Small Mammal Trapping and Wildlife Photography	E	Open Ce	Α	С
Nature Walk	F		В	D

Six School Group A, B, C, D, E, F





Nature Walk









SeaLife Blackpool











Making
Bug
Hotels
and Bird
Boxes









Wildlife Photography













Owl Pellets









Painting from Nature







Community Engagement

24 hour Bioblitz Walks June 2018	Walk	Location	Leader	Co-leader	Co-leader
Friday 22nd					
11:00-14:30	School Activities in Marquee	Stanah	Jean Wilson	Amy Clayton	Keith Urwin an
12:00-12:30	Opening Event	Stanah	Jean Wilson	Alison Boden	ALL
15:00-16:00	SaltMarsh Survey	Stanah	Jean Wilson	Jennifer Sharples	Kath Lowe
19:00-20:00	Evening Bird Walk	Stanah	Ian Coote	Mark Farrah	Amy Clayton
20:00-21:00	Retrieval of Fyke Nets	Stanah	Tom Myerscough & Steve Brown	Alison Boden	Kath Lowe
22:00-23:00	Bat Walk	Stanah	Charlie Pass	Karen Lawson	
23:00-23:30	Set up Moth Traps	Stanah	Karen Lawson	Charlie Pass	
Saturday 23rd	The Control of the Co				
10:00-15:00	Biolibtz Activities in Marquee	Stanah	All Exhibitors		
05:00-07:00	Early Morning Survey	Stanah	Josh Swales	Amy Clayton	Alison Boden
07:00-08:30	High Tide Bird Walk	Rossall Point	lan Coote	Mark Farrah	
08:00 - 8.30	Moth trap checking	Stanah	Karen Lawson		
08:00 - 8.30	Mammal trap checking	Stanah - Outdoor Classroom	Alan Bedford		
9:30-12:00	Wildflower Survey	Stanah	Graeme Nuttall		
10:00-11:00	Woodland Bird Survey	Stanah	Ian Coote	Mark Farrah	Amy Clayton
11:00-12:00	Butterfly Survey	Stanah - Outdoor Classroom	Karen Lawson		
13.00- 14:00	Butterfly and Moth ID	Stanah	Karen Lawson	Charlie Pass	
13:00-14:00	Mud Rescue	Stanah	John Bradbury	Dave Eccles	
13:00-15:00	Small Mammals ID	Stanah - Outdoor Classroom	Mike Clapham	Alan Bedford	
15:00-15:30	Closing Ceremony	Stanah	Alison Boden	Jean Wilson	-

















Healthy Heroes & Health Checks









Nature Walks and Surveys











Nature and Art











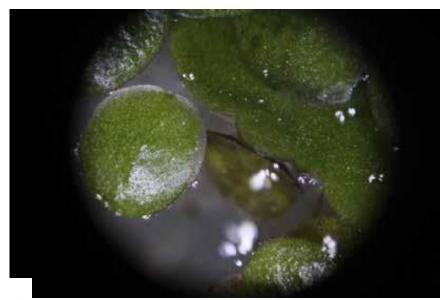


Recordings and Surveys





























Summary



- 700+ species identified and confirmed
- 100 Bird boxes and Bug hotels constructed
- 80 school children
- 1000+ visitors on 23/06/18

WYRE Estuary BioBlitz Friday 22 & Saturday 23 June 2018 BioBlitz Activity Registers

Date	Time	Time Where Leader Description		People	Duration Hrs	Time Total	
22/06/2018	13.00	WECP	Charlie Pass	Beginners Wildlife	3	2	6
22/06/2018	15.00	WECP	Jean Wilson	Salt Marsh Survey	9	1	9
22/06/2018	19.00	WECP	lan Coote	Evening Bird Walk	15	1	15
22/06/2018	20.00	WECP	Tom Myerscough	Retrieval of Fyke Nets	12	1	12
22/06/2018	20.00	WECP	Charlie Pass	Setting up Moth Traps	.0	0	0
22/06/2018	22.00	WECP	Charlie Pass	Bat Walk	17	1	17
				FRIDAY TOTAL	56		59
23/06/2018	05.00	WECP	Josh Swales	Early Morning Wildlife Survey	11	2	22
23/06/2018	07.00	Rossall	Ian Coote	High Tide Bird Walk	4	1.5	6
23/06/2018	08.00	Rossall	Emily Parr	Sea Watch	5	1	5
23/06/2018	08.00	WECP	Karen Lawson	Emptying Moth Traps	3	0.5	1.5
3/06/2018	08.00	WECP	Alan Bedford	Emptying Mammal Traps	3	0.5	1.5
3/06/2018	09.30	WECP	Graeme Nuttall	Wildflower Survey	8	2.50	20
3/06/2018	10.00	WECP	Ian Coote	Woodland Bird Survey	2	1	2
3/06/2018	11.00	WECP	Karen Wilson	Butterfly Survey	9	1	9
3/00/2010	11.00	111111	IN THE STATE OF TH	SATURDAY TOTAL	45		67
			_		101		126

Summary

		Attendance Registers		Walk Registers		
		IROTE LINE	People	Time Total	People	Time Total
14/06/2018	Thursday	Prep	5	37.5		
17/06/2018	Sunday	Prep	10	58		
18/06/2018		Prep	3	20.25		
19/06/2018		Prep	9	46		
20/06/2018		Prep	5	43.25		
21/06/2018		Prep	6	48.5		
22/06/2018		Schools	86	308.75		12000
22/06/2018	the state of the s	BioBlitz	41	333.5	56	59
		BioBlitz	39	314.5	45	67
23/06/2018	Saturday	- Cicl	204	1210.25	101	126.00







The 'Jean' Pool



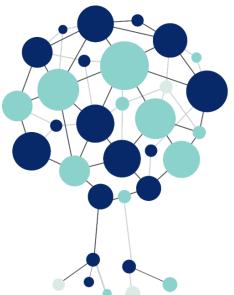












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