North Wales Wildlife Trust Research Projects

Dr Shaun Russell, Bangor University, is a first contact point for exploring these options with BU students (s.russell@bangor.ac.uk)

Scheme/area	Topic	Subject	NWWT Contact	Priority	Scale/Scope
<u>Living Landscape</u> <u>Schemes</u> (LLS)					
Anglesey Fens	Landscape	The potential for increasing habitat connectivity in the Anglesey Fens LLS through habitat restoration and recreation - selected key habitats to examine (heathland, woodland, fen etc)	CW	M	BSc/MSc
	Agriculture	Farm management and water quality issues in the fens catchment	CW	Н	BSc/MSc/PhD
	Species	Invasive species in LLS - an assessment of key species and issues	CW	М	BSc/MSc
	Cultural	What is the/is there a cultural identity associated with all/part of the LLS?	CW	L	BSc/MSc
North-west's Living Landscape scheme	Living Landscape	Take lolo's initial GIS assessment of where to site a further LL scheme in NW area to the next stage, including gathering species info, contacting landowners, and possibly fundraising options to pay for a scoping study.	RB	Н	BSc / MSc
WT Nature Reserve Based					
Cors Goch	Invertebrates	butterfly transect (through summer months) compare data with previous transects to investigate effects of management	CW	Н	April- September
	Ornithology	breeding bird survey (especially focussing on wetland species); compare data with previous surveys (1999)	CW	М	BSc/MSc

		and 2004) and other sites to investigate effects of management			
	Botany	- studies of stonewort species especially the nationally endangered species, Dwarf Stonewort (Nitella tenuissima); e.g. survivorship in the spore bank			
	Botany	vegetation monitoring in any of a variety of habitats (fen, heath, grassland) and compare data with previous work to investigate effects of management	CW	L	BSc/MSc
	Zoology	- studies of invertebrate species; their distributions in a variety of habitats (fen, heath, grassland) and compare data with previous work to investigate effects of management	CW	Н	BSc
Spinnies, Aberogwen	Zoology	Feasibility studying looking at introducing beaver	CW	L	BSc/MSc
Cemlyn	Ornithology	- behavioural studies of the interactions between tern species and black-headed gulls, e.g klepto-parasitism WT can provide details of previous MSc/BSc examining similar issues and access to population data	CW	L	BSc/MSc
	Ornithology	Other aspects of tern ecology	CW	M	
	Hydrochemical/ Ecology	- Fluctuating salinity regimes and the responses of key lagoonal invertebrate species WT can provide details of biological interest and salinity readings taken over (on/off) a two year period for comparative study	CW	M	MSc
	Geomorphology/ ecosystems	geomorphology; shingle ridge & climate change adaptation/resilience	CW	M	MSc
Coed Crafnant	Ecology	- Determining role/importance of deadwood at this site and developing a means for monitoring standing dead wood and regeneration.	RB	L	BSc

	Grazing / habitat management	Assess effect of browsing pressure by feral goats on the understorey and regeneration of the woodland and key species (particularly lichens and bryophytes)	RB	М	BSc / MSc
Morfa Bychan and/ or Greenacres	Geomorphology	- dune erosion monitoring; collect data and analyse along with data collected by WT	RB	L	BSc
	Botany	Vegetation surveys to guide management	RB	L	BSc
Gogarth, Bryn Pydew, and Rhiwledyn	Species ID and survey techniques	Undertake bird surveys and butterfly transects, moth- trapping, vegetation surveys, mammals, invertebrates, etc. to inform management	RB	L	BSc
Cors Bodgynydd	Wetland ecology	Water quality and depth analysis - assess effects of grazing, run- off, and surrounding conifer plantation	RB	M	BSc
Caeau Tan-y-Bwlch	Traditional hay meadow management	Soil testing to assess need and techniques available for effective management, e.g. lime dressing, alternate grazing / hay cut.	RB	M	BSc
Mariandyrys	Botany	Heathland and calcareous grassland restoration - how do soil types predict changes to date, following management WT can provide results of previous surveys	CW	L	BSc/MSc
Caeau Pen y Clip	Botany	Changes in grassland composition after the re-introduction of conservation management - baseline data available	CW	Н	BSc/MSc
	Various	There may also be further opportunities on WT reserves e.g. small mammals, invertebrates, bryophytes.	CW	L	BSc/MSc
Management Planning	Ecology, conservation, environmental management	Research/review (and write up) reserve management plans	RB+CW	Н	BSc / MSc
Outside of WT Nature Reserves					

Traeth Lafan and coastal zone	Various	Studies of species interest in the area, e.g. mammals, invertebrates & potential for improvements	CW	L	BSc
Wildlife Sites -	Botany	Survey of non-statutory sites of a particular habitat and examination of resource/contribution to LBAP and other conservation delivery mechanisms. WT can provide details, list of sites and an indication of biological interest	CW	M	BSc
WT & development control/planning process	Conservation & planning	An examination of how effective our work is, looking at examples of where we have commented, what the results are etc. Implications for future improvements. WT can provide details of consultations and responses	CW	L	MSc
Ecosystem services	Ecosystems	Carbon capture, flood risk management. Discuss with staff			
Wildlife and People					
		Welsh-speakers' involvement (or non-involvement) in wildlife / environmental organizations			
Marine			NJ		