

Field Name	Field Value
Name	Todd Blackledge
Organization	Biology
Phone	x7264
email	blackledge@uakron.edu
Web_Address	
Renewal	No
Permit_Number	2009-004
Activity	Research
Project	spider web biomechanics during prey impact
Dates	5/09 through 12/10
Group_Size	3
Research_Area	Yes
Eighteen_Acres	Yes
Beefys_Woods	Yes
Grandview_Alley	Yes
Round_Top	Yes
South_Woods	Yes
Sensitive_Area	No
Other_Areas	No
Building	Yes
Prep_Work	computers and television for video analysis
Sampling_Collecting	No
Sampling_Methods	minor sampling of common species of spiders and insects. Likely no more than 10-20 of any species.
Description	We will use high speed video to examine how spider webs deform under prey impact. These results will be analyzed with lab data on silk biomechanics to understand how webs absorb the energy of flying insects. This project, at the interface between field biology and engineering, will provide insight into the evolutionary pressures that have shaped the high performance properties of spider silks. Impact to the preserve will be negligible because we will collect only a small number of common spiders and insect prey.
Agreement	Accept