1. Project Title: A Mycological Study of The Shoal Creek Nature Conservation Area

2. Submitted by: Name (Dr., Mr., Mrs., Ms.) Mr. Andrew N. Miller
   Affiliation
   Address 412 N. McGown St. (P.O. Box 64)
   City, State, Zip Raymond, Il. 62560

3. Contact Person: (Dr., Mr., Mrs., Ms.) Mr. Andrew N. Miller

4. Phone Number: (217) 229-3067

5. I request $400 in funding from the Nongame Wildlife Conservation Fund.

6. PROPOSAL CATEGORY (For Staff Use Only)
   Management Site Inventories Education

Project Justification:
The Shoal Creek Nature Conservation Area encompasses 216 acres on the southern tillplain. It is composed of central barrens, prairies, oak-hickory forest, savannah, and a hillside seep. There is also evidence of old-field succession.

Although a vascular plant inventory totalling 580 taxa has been completed for the area, there has been no attempt to record the diversity and abundance of fungi which occur in the preserve. This study is intended to document the abundance, distribution, and fruiting patterns of the fungi found in the Shoal Creek Nature Conservation Area. Once the frequency and dispensation of fungi has been ascertained, it will be possible to study the effects of fire (used as a maintenance tool in the preserve) and other disturbances on these populations. This study is important in that it would increase the knowledge of the effects of natural disturbances on fungal communities.

8. Project Objectives:
1. Prepare a checklist of fungi which occur in the Shoal Creek Nature Conservation Area.

2. Record distributional data for fungi collected. (Prepared using maps of the preserve.)

3. Record ecological data for fungi including substrate, soil type, exposure, and climatic data.

4. Submit a final report documenting species abundance and distribution along with the ecological data.
Detailed budget for A Mycological Study of the SCNCA

Supplies for the mushroom dryer

1. 3/8" 4x8 A/C Exterior grade fir plywood $ 18.50
2. Brass hinge- 72" 9.99
3. 4D Finishing nails .49
4. 6"x1½" Wood screws 1.89
5. 6"x3/4" Wood screws 1.89
6. Indoor/Outdoor thermometer 21.95
7. 120 V A/C 4" Electric fan 20.32
8. 2)"1"x6"- 6' #3 Common pine @ $1.79 each 3.58
9. 2"x6"- 8' Pine 4.22
10. 30'-of 1/2" Quarter-round molding subtotal $88.53

Supplies from Bioquip

1. Glass vials with screw caps (per dozen) $ 3.45
2. Notebooks and pens 12.60
3. Specimen data labels 3.40
4. How to Know the Mosses and Liverworts by H.S. Conard 21.50
5. How to Know the Lichens by M.E. Hale 21.50
6. How to Know the Non-gilled Mushrooms by A.H. Smith subtotal $83.95

Misc.

1. Mushroom collecting basket (trapper's basket) $ 36.39
2. Mushroom basket straps 9.67

Travel Expenses

1. Mileage only at 25¢/mile at 26 miles (round trip)=$6.50/trip at 25 trips $162.50

Grand Total $400.00
Figure 3. Map of the Natural Divisions of Illinois showing the location of the proposed Shoal Creek Nature Preserve.
Figure 1. Location of the proposed Shoal Creek Nature Preserve northeast of Litchfield in Montgomery County, Illinois.
Figure 2. Boundaries of the proposed Shoal Creek Nature Preserve, Montgomery County, Illinois.
March 25, 1993

Mr. Andrew N. Miller
412 N. McGown St.
P.O. Box 64
Raymond, IL 62560

Dear Mr. Miller:

This letter will acknowledge receipt of the Small Project Proposal for FY94 which you have submitted.

The number your project has been assigned is 94-008.

Sincerely,

[Signature]

Carl Becker, Chief
Division of Natural Heritage

CNB:mn
Division Ascomycota
Class Hymenoascomycetes
Order Pezizales
Family Leotiaceae

*Leotia lubrica* Fries
6-29-93
terrestrial

Family Helvellaceae

*Gyromitra fastigiata* (Krombh.) Rehm
4-25-93 South
terrestrial

*Helvella acetabulum* (Fr.) Quel.
5-14-93 Central
terrestrial

*Helvella crispa* Fr.
6-10-93 Central
terrestrial

*Helvella pezizoides* Fries
6-29-93
terrestrial

Family Morchellaceae

*Morchella deliciosa* Fr.
4-25-93 South
terrestrial

*Morchella esculenta* Fr.
5-2, 5-9, and 5-13-93 North
terrestrial under Post Oak
Family Pyronemataceae

_Humaria hemispherica_ (Fr.) Fuckel
6-29-93 terrestrial

_Scutellenia scutellata_ (Fr.) Lambotte
5-14-93 Central terrestrial

Family Sarcoscyphaceae

_Sarcoscypha occidentalis_ (Schw.) Sacc.
5-14-93 Central lignicolous on dead limb

Family Sarcosomataceae

_Urnula craterium_ (Schw.) Fr.
5-14-93 Central terrestrial
Division Basidiomycota
Class Holobasidiomycetes
Subclass Hyphomycetes
Order Agaricales
Family Agaricaceae

Agaricus campestris Fries
6-28-94 South
 terrestrial

Family Amanitaceae

Amanita brunnescens Atkinson
6-10-93 Central
 terrestrial

Amanita flavoconia Atkinson
6-19-93 North
 terrestrial

Amanita flavorubescens Atkinson
6-29-93 terrestrial

Amanita rubescens (Fr.) S. F. Gray
6-19, 7-2, and 7-17-93 North, Central, and South
 terrestrial

Amanita russuloides Peck
6-29-93 terrestrial

Family Bolbitiaceae

Conocybe lactea (Lge.) Metrod
6-29-93 terrestrial

Family Coprinaceae

Coprinus micaceus (Fr.) Fr.
4-25-93 South
 lignicolous on rotting stump

Family Lepiotaceae

Lepiota caerulescens Peck
6-29-93 terrestrial

Family Pluteaceae

Pluteus cervinus (Fr.) Kummer
5-13-93 North
 lignicolous on stumps
**Family Russulaceae**

*Laccaria ochrepurpurea* (Berk.) Peck  
10-10-93  South  
*terrestrial*

*Lactarius argillaceifolius* Hester and Smith  
6-29-93  South  
*terrestrial*

*Lactarius camphoratus* (Fr.) Fr.  
6-29-93  
*terrestrial*

*Lactarius corrugis* Peck  
6-29-93  
*terrestrial*

*Lactarius indigo* (Schw.) Fr.  
7-2, 7-17-93  Central and South  
*terrestrial*

*Lactarius piperatus* (Fr.) S. F. Gray  
7-8-93  North  
*terrestrial*

*Lactarius psannicola* Hester and Smith  
6-29-93  
*terrestrial*

*Lactarius volemus* (Fr.) Fr.  
6-29, 7-8-93  North  
*terrestrial*

*Russula brevipes* Peck  
6-29-93  
*terrestrial*

*Russula compacta* Frost in Peck  
6-29-93  North  
*terrestrial*

*Russula pulverulenta*  
6-29-93  
*terrestrial*

*Russula variata* Banning  
6-29-93  North  
*terrestrial*

*Russula virescens* Fr.  
6-19-93  South  
*terrestrial*

**Family Tricholomataceae**

*Tricholoma sejunctum* (Fr.) Quel.  
10-10-93  South  
*terrestrial*
Order Boletales
Family Boletaceae

Boletinellus merulioides (Schw.) Murr.
6-19-93 South terrestrial

Boletus affinis Peck
6-29-93 terrestrial

Boletus auriporus Peck
6-29-93 terrestrial

Boletus campestris Smith & Thiers
6-10-93 Central terrestrial

Boletus griseus Peck
6-19-93 South terrestrial

Boletus separans Peck
6-29, and 7-2-93 South and Central terrestrial

Boletus subglabripes Peck
6-29-93 terrestrial

Boletus "variipes" Peck
6-29-93 terrestrial

Leccinum rugosiceps (Peck) Singer
6-29, and 7-25-93 South terrestrial

Strobilomyces confusus Singer
6-29-93 terrestrial

Strobilomyces floccopus (Fr.) Karsten
6-29, and 7-8-93 North and South terrestrial

Tylopilus badiceps (Pk.) Smith & Thiers
6-29-93 terrestrial

Tylopilus rubrobrunneus Mazzer & Smith
6-21, and 6-29-93 Central and North terrestrial
Order Cantharellales
Family Cantharellaceae

Cantharellus cibaris Fries
6-21, 6-29, 7-8, 7-25-93, and 6-28-94
Central, North, and South terrestrial

Cantharellus cinnabarinus Schw.
6-29-93 North terrestrial

Craterellus fallax Smith
6-29-93 terrestrial

Craterellus foetidus Smith
6-19-93 North terrestrial at base of hill on sandy soil

Order Clavariales
Family Clavariaceae

Clavaria zollingeri Leveille
6-29-93 North terrestrial

Clavulina cinera (Fr.) Schroet.
6-29-93 North terrestrial

Ramaria stricta (Fr.) Quel.
7-17-93 South lignicolous on dead wild cherry branch

Order Hydniales
Family Hericiaceae

Hericium erinaceus Pers.
5-13-93 Central lignicolous on dead tree trunk

Order Polyporales
Family Polyporaceae

Polyporus arcularius Fr.
5-14-93 Central lignicolous on dead branch

Trametes versicolor (Fr.) Pil.
7-17-93 South lignicolous on dead branch

Pycnoporus cinnabarinus (Fr.) Karst.
4-17-94 North lignicolous on dead branch
Subclass Gasteromycetidae
Order Lycoperdales
Family Geastraceae

Geastrum rufescens Persoon
5-14-93 Central terrestrial

Family Lycoperdaceae

Lycoperdon perlatum Pers.
6-23-93 South terrestrial

Order Nidulariales
Family Nidulariaceae

Crucibulum laeve (Huds. ex Relh.) Kambly
6-29-93 South lignicolous on dead twigs

Class Phragmobasidiomycetes
Order Auriculariales
Family Auriculariaceae

Auricularis auricula (Hook.) Underwood
5-14-93 Central lignicolous on dead branch

Exidia glandulosa Bull ex. Fr.
4-30-94 South lignicolous on dead branch

Order Tremellales
Family Tremellaceae

Tremellodendron schweinitzii (Pk.) Atkinson
6-19-93 North terrestrial