

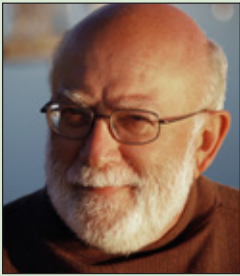


WESTERN PENNSYLVANIA MUSHROOM CLUB NEWSLETTER

Volume 13, Issue 3

July / August 2013

PRESIDENT'S MESSAGE



Jim Wasik
WPMC President

SUMMER IS UPON US. The Morel season has been hit and miss, some have reported huge finds (undocumented) but most of us have found only a few. Let's hope that Chanterelle and Boletes pull us through.

The May cultivation meeting was a huge success. We had over 60 members and guests attending. Thanks to **Mark Spear** and **Rebecca Miller**, each attendee was able to take home a Pink Oyster Mushroom (*Pleurotus djamor*) kit. **Jim Tunney** provided attendees with two other mushroom kits: *Agrocybe arvalis sclerotia* (a non-edible mushroom), and *Lentinus tigrinus*. Thank you also to Mark, Rebecca, Jim, and all of the volunteers at the meeting who helped package the kits. Everyone is appreciative of your efforts.

In July, **La Monte Yarroll** will present an update on the naming and renaming of several common mushrooms.

August should delight everyone's taste buds as **Jeff Berkowitz** cooks up wild mushrooms. With the demonstration taking place at the height of the summer mushroom season, it should be a very tasty meeting.

September brings about the **Lincoff Foray** at North Park. This all-day event is the highlight of the Club's year. **Barbara DeRiso** has planned a full day of activities. Please see pages 2 and 3 in this Newsletter or go online at www.wpamushroomclub.org for more information.

In other news, the WPMC website is being updated. The access will be the same (www.wpamushroomclub.org), but a new up-to-date format has been developed. Look for it after September 1.

In the meantime, keep mushroom hunting. *They are out there!*

JIM WASIK – PRESIDENT 2013

North American Mycoflora Project

EVERY YEAR FOR SEVERAL DAYS, scores of NAMA members scout out hundreds of fungi from varied habitats within a broad geographic area surrounding the annual foray site. One specimen — a voucher specimen — of each species identified by an expert amateur or professional, is photographed, recorded, and, after being displayed, is dried and accessioned into the herbarium of the Field Museum of Natural History, the repository of NAMA's several thousand voucher specimens representing hundreds of fungi species.

The specific goal of this program is to document each species name on the foray species list with a single voucher specimen (which, of course, may include several fruiting bodies). Specimens are selected as vouchers based on the condition of the specimen, whether it is new to the current foray, and whether a voucher has already been made. After being identified or verified by a mycologist, the data for the collection is entered into the foray database, a digital photo is taken, then the specimen is usually placed on the display table. Later, these voucher specimens are dried and bagged for shipping to The Field Museum.

Metadata associated with the specimens is equally important. If we know where, when and with what a particular specimen was found, it makes the specimen much more valuable. Ideally each specimen would be connected to a date, and exact location, a habitat that occurred at that location when it was collected, and notes about any critical taxonomic characters that are not likely to be preserved in the dried specimen (e.g. taste, smell, color, bruising, etc.). Color images need to be a major part of this effort because dried herbarium specimens generally lose their color and shape. All of these images do not need to be great art, but they do need to document the critical features of the specimen that will not be preserved, and they need to be directly associated with the specimen. That is to say one or a few images for species is not what we are after here, we want one or more images for each vouchered specimen. That way the range of variation within a species is documented, and the specimens themselves become more valuable because one can see what each one looked like when it was fresh.

NORTH AMERICAN MYCOFLORA PROJECT

The First North American Mycoflora Workshop on YouTube

<http://www.youtube.com/course?list=ECOyuQaVrp4qrweAIKZRhJjIPFj2gbYJgY>

Contact sources for voucher specimens: Patrick Leacock (pleacock@fieldmuseum.org) and Greg Mueller (gmueller@chicagobotanic.org)

Submitted by John Stuart

The 13th Annual Gary Lincoff Mid-Atlantic Mushroom Foray

September 21, 2013

Rose Barn – Allegheny County's North Park • Pearce Mill Road • Allison Park, PA 15101



THE ANNUAL GARY LINCOFF MID-ATLANTIC MUSHROOM FORAY is the highlight of the WPMC's mushrooming year. It is an all-day mushrooming experience headquartered at Rose Barn in North Park, an Allegheny County Regional Park near Pittsburgh, PA.

The day starts off with guided mushroom walks in the morning. Walk locations are known producers of a bounty of fall mushrooms, including many edibles like Hen-of-the-Woods, Chicken Mushrooms, Boletes, and Chanterelles. Attendees regularly bring in well over 100 different kinds of mushrooms. Each year, a number of new and unusual mushrooms are found.

The center of attention shifts to Rose Barn in the afternoon. Our principal mycologist, **Gary Lincoff**, author of the *Audubon Field Guide to Mushrooms*, will be our first speaker. Joining Gary this year will be **David Miller**, newsletter editor for the Ohio Mushroom Society and **John Wheeler**, president of the Berkshire Massachusetts Mushroom Club. **John Plischke III** will lead the guest mycologists, club mycologists, and club identifiers in the task of putting names on all the mushrooms brought into the display area.

Mycophagy, the cooking and tasting of edible mushrooms, is another highlight of the Lincoff Foray. Featuring **Jeff Berkowitz**, who has done cooking demonstrations at our monthly meetings for the last three years. However, everyone's favorite part of the program is our famous Mushroom Feast. Club cooks prepare over thirty different mushroom dishes. You will not go home hungry.

First-time attendees are amazed at how much they can learn about so many different aspects of mushrooming during this all-day event. The walks and programs are aimed at mushroomers of all levels. Some have found that they learn many new things from just talking with other attendees and seeing the wide variety of mushrooms found.

Volunteers are needed for the set-up and clean-up task force. Consider donating mushroom-related items for the auction. **contact: Lincoff-Foray@wpamushroomclub.org.**



FORAY REGISTRATION FORM

Schedule of Events:

Registration:	7:30 – 8:15 am
Welcome & Organizing:	8:30 – 9:00 am
Mushroom Walks:	9:00 am – 12:00 pm
Lunch (on your own):	12:00 – 1:00 pm
Guest Speakers:	1:00 – 4:00 pm
Cooking Demonstration:	2:10 pm
Mushroom Feast:	4:30 – 6:00 pm
Mushroom Identification:	5:30 – 6:30 pm
Clean-Up:	6:30 – 7:00 pm

MERCHANDISE SALE / SILENT AUCTION AT POSTED TIMES

FUNGI PHOTOS BY ELLIS BECKER

Walks & Forays

by John Plischke III

WPMC REQUESTS that no one hunts a walk or foray location for *at least two weeks* prior to that walk or foray. It is only through your cooperation that we can have successful walks and forays. All walks and forays will be held rain or shine. Come 15-30 min early and socialize. All walks start on time, so be early, if you are late we will already be in the woods. You can find last minute additions or changes at Yahoo Groups: groups.yahoo.com/group/wpamushroomclub.

For all walks and forays, bring water and lunch. Dress for the weather. Bring basket, wax or paper bags (no plastic) to keep mushrooms separated, whistle, compass, chair, hand lens, insect repellent, cell phone, and books for identification. Also bring a knife to dig up mushrooms for identification or to cut edibles off to keep them clean. Try to dig up 3 of the same species at different

stages of development. Don't pick old mushrooms; leave them to drop their spores.

Bring a friend or two. You are responsible for not getting lost. Use the 'Buddy System' when hiking through the woods. Don't rely on the fungi identification of the person standing next to you. Only club mycologists and identifiers should be used for advice.

The Walk Leader will tell you when to be back at the walk starting place where the mushrooms will be displayed and identified by Club Mycologists and Identifiers. Take notes and pictures to help you remember the mushrooms. You should go home and check books yourself. The decision to eat a wild mushroom is ultimately yours alone.

Walks:

July 20: 9:30am North Park / Led by Jack & Valerie Baker and the Westmoreland Botany Club at the North Park at swimming pool parking lot. (see June 22 for directions)

July 20: 9:45am Ryerson Station State Park, Greene County. Led by Bonnie & Brian Davis, Park Manager Alan Johnson, and activities director Jarred. Meet at the Ranger Station. Walk leaves by vehicle promptly at 10 am. Chanterelles, black Trumpets and many Boletes including *Boletus frostii* (the red one that's edible) have been found. Roughly 70 different species is the norm.

July 27: 10am Salamander Park, Fox Chapel / Led by Dick Dougall & John Stuart. Fox Chapel Road (Green Belt) North of junction with Squaw Run Road. Route 28 north or south: Take Exit 8 and turn North onto Fox Chapel Road. At the fork with Squaw Run Road, keep right. Salamander Park is 0.2 miles further on the left.

August 3: 10am Hartwood Acres, Mike Ott walk leader: Meet at the Mansion parking lot.

August 17: 10am Beechwood Farms, Cecily Franklin walk leader: Meet at the parking lot pavilion.

October 5: 10am Raccoon Creek State Park, Beaver County. Dick Dougall walk leader. Meet in the parking lot by the park office. The entrance is on the southwest side of Route 30 in Beaver County. From Pittsburgh: Take I-376 W. Exit 60A, merge onto US-22 W/U.S. 30 W toward Weirton. Take PA-18 exit toward Florence/Burgettstown. Turn left onto PA-18 N to park entrance. www.dcnr.state.pa.us/stateparks/findapark/raccooncreek/

October 13: 1pm Pleasant Valley Park Mushroom Walk. Friends of Murrysville Parks / Meet Scott Hamilton. Pleasant Valley Park, 2557 Pleasant Valley Road, Murrysville, PA 15668

Workshops/Seminars:

September 8 - 14: Boletes of North America: A Field Seminar and Workshop. Natural History Field Seminars, Workshops, and Courses at Eagle Hill on the Eastern Maine Coast: www.eaglehill.us / 59 Eagle Hill Road, P.O. Box 9, Steuben, ME 04680 / 207.546.2821, office@eaglehill.us

Forays:

July 20-21: Ohio Mushroom Society: Penitentiary Glenn, Lake Co. Metroparks, OH also nearby Holden Arboretum & Chapin Forest. More information at: www.ohiomushroom.org

July 27: WVMC Foray: Cannan Valley. Join Gary Lincoff, Donna Mitchell, Bill Roody and Walt Sturgeon when they team up with the West Virginia Mushroom Club for a fantastic fungal foray at Canaan Valley State Park in Davis, West Virginia wvmushroomclub.org

August 2-4: EPM Miknis Foray: Mont Alto campus - www.epennmushroomers.org/

August 6-10: NEMF 37th Annual Foray: (see page 6 for details) Campus of University of Québec at Rimouski (300, Allée des Ursulines, Rimouski, QC) For details on location, program and registration visit the Cercle des Mycologues de Montréal website <<http://mycomontreal.qc.ca/>> then click on the NEMF - FQGM - 2013 link

August 16-18: 4th Annual CPWMC Wild Mushroom Foray: The Central Pennsylvania Wild Mushroom Club (CPWMC) invites you to attend the foray at the Sieg Conference Center near Lock Haven in an old growth forest of hardwoods and hemlocks. Join us for a weekend of hunting, identifying, and learning about the prolific fungi of central PA. Must be at least 18 to attend. To register and details. <http://www.centralpamushroomclub.org/events>

August 30-Sept. 2: COMA 35th Annual Rogerson Foray: Connecticut-Westchester Mycological Association, Camp Hemlocks, Hebron, Connecticut.

September 21: WPMC Gary Lincoff Mid-Atlantic Mushroom Foray: See page 2 & 3 for details.

September 27-29: Mycological Association of Washington Foray: Camp Sequanota, Jennerstown, Somerset County. Excellent foray with a record number of species: about 260, and sometimes vast quantities of choice edibles such as black chanterelles, horse mushrooms, and *Boletus separans*. Details and registration form is on their web at www.mawdc.org

October 24-27: NAMA: Annual Foray: (see page 6 for details) Shepherd of the Ozarks, Arkansas (about 115 miles and 2.5 hours north of Little Rock) Website: <http://www.sotocamp.com/>



WPMC Meetings:

WPMC meetings are held on the 3rd Tuesday each month from March through November at:

Beechwood Farms (Audubon Society of Western PA)
614 Dorseyville Road • Pittsburgh, PA 15238

2013 Annual WPMC Photo Contest

DEADLINE FOR SUBMISSIONS:

- September 30, 2013
- Maximum of 5 entries per WPMC member
- Submit high resolution JPEG files no larger than 4 megabytes
- Email entries to Rebecca Miller at RMtreesplease@gmail.com

WPMC PHOTO CONTEST RULES:

You must be a member of the Western Pennsylvania Mushroom Club in good standing to enter. Club dues must be up to date.

ENTRY DIVISIONS:

Pictorial: This division is for single photos that illustrate the beauty and variety of fungi in form and color. The objective is a photo suitable for display or illustration in a fine book. Judging criteria include consideration of both technical (focus, depth of field, exposure, lighting, color, absence of distracting elements) and artistic (composition, color, background, lighting) aspects.

Documentary: For single photographs especially suited as illustrations in a field guide or monograph, or for use in a lecture. Emphasis is placed on portrayal of key morphological characteristics such that the usefulness of the image as an identification aid is maximized. Subjects may be shot in the field, laboratory or studio and the photographer has complete freedom to process, manipulate, or orient the specimen in any desired manner to achieve the goal. Close-ups of single features and photomicrographs are acceptable. Judging criteria will be the same as in the Pictorial category but they will be of secondary importance to the overall mycological utility of the photo. Accurate identification of the subject will be a consideration..

Judge's Option: For photos which do not fit into the pictorial or documentary divisions. For example: fungi in an interesting situation, fungi with animals, people enjoying fungi.

Subject material for pictorial and documentary: Organisms from the *Myxomycota* (slime molds) and the classes *Basidiomycetes* and *Ascomycetes* of the *Eumycota* ("true fungi") are eligible.

For Judge's Option: Nearly anything goes, so long as the theme relates to fungi, and fungi are a key element of the photograph.

Check our website for a complete list of the year's events. Details and updates for the following events will be included in future newsletters.

July 16 Agaricus / Lepiota / Coprinus
SPEAKER La Monte Yarroll

Genetic analysis has radically changed our understanding of the classification of mushrooms. Classification is all about understanding which mushrooms are related. Even if you just want to eat them, it is helpful to know which mushrooms are related. We will look at examples from Coprinus (Inky caps), Lepiota (Parasols), and Morchella (Morels).

August 20 Cooking Wild Mushrooms (demonstration)
SPEAKER Jeffrey Berkowitz - Health Coach at New Life Kitchen in the Greater Pittsburgh Area

Jeff will prepare delicious mushroom dishes right before our very eyes. Since this is the height of Western Pennsylvania mushroom season, especially Chanterelles, Chef Jeff is soliciting mushrooms for his demonstration. If you would like to contribute to this culinary feast, please e-mail Jeff at: jeff@couplenutrition.com.

NOTE: Jeff will also be a featured chef at the Gary Lincoff Foray on September 21, 2013.

Sept. 17 Lincoff Foray Update: Barbara DeRiso, Dick Dougall
SPEAKER Frank Lotrich / Fungi: Toxins and Therapies

Sept. 21 Lincoff Foray, North Park (SEE PAGE 2-3)

Oct. 15 Photography Contest, Rebecca Miller
Election of Officers

Nov. 19 Member Photos / Open Forum
Pot Luck Dinner

Washington & Greene County Chapter:

MEETINGS: 6:00 – 7:45 PM
Peters Township Public Library
616 East McMurray Road
McMurray, PA 15317
www.ptlibrary.org • 724-941-9430

JULY 23 Slide presentation on summer mushrooms like Chanterelles & Trumpets

SEPT 24 Fall meeting; recap of past season and focus on Hens, Honeys, and Chickens



North American Mycological Association

To promote, pursue and advance the science of mycology

NAMA Annual Foray 2013 • October 24-27, 2013 • Shepherd of the Ozarks, Arkansas

For more information and registration:

<http://www.namyco.org/events/NAMA2013/index2013.html>

NAMA lowers dues: Now is a great time to Join NAMA

(Note: Membership in NAMA is required to attend NAMA Forays).

\$24 members of affiliated clubs (electronic)

\$30 members of affiliated clubs (hard copy)

\$29 individual/family membership (electronic)

\$35 individual/family membership (hard copy)

\$35 individual/household membership outside North America (electronic)

<http://www.namyco.org/join/index.html>

HOSTED BY THE ARKANSAS MYCOLOGICAL SOCIETY,

this promises to be a spectacular event with a stellar faculty that includes chief mycologist Dr. Clark Ovrebo, Dr. Alan Bessette and Arlene Bessette, Dr. Andy Methven, Dr. Michael Kuo, Dr. Jean Lodge, Dr. Tom Volk, Dr. Britt Bunyard and the "Magnificent Mycologist of Texas", David Lewis. Come spend time with these knowledgeable mycologists, attend lectures, explore the unique habitat of this region, and meet some new friends.

The Ozark Mountain region is characterized by a diversity of terrestrial, aquatic, and karst habitats, ranging from extensive glades and tall grass prairies to both coniferous and deciduous woodlands as well as cypress swamps, fens, sinkholes, sloughs, and a plethora of clear-flowing streams and rivers fed by an abundance of springs, including some of the largest freshwater springs in North America.

Shepherd of the Ozarks is a year-round 460 acre Christian Conference/Retreat center located in the heart of the Ozark Mountains in Arkansas. Here you can enjoy many activities including hiking, exploring, horseback riding, swimming, canoeing, fishing, floating, snorkeling, volleyball, Frisbee golf, and the extreme adventure sports of high personal challenge – ropes course, paintball, as well as visiting the petting zoo and watching the natural wildlife. Nestled in this wilderness setting are ten luxurious log cabin style lodges varying in décor and size to sleep from 6 to a group of 400 people. All of them include kitchens, meeting rooms, private bedrooms and bunk areas. Massive rock fireplaces, chairs on the porch and comfortable beds invite you to come for refreshment and relaxation. (Jay Justice)

2013 NEMF Samuel Ristich Foray

37th Annual Foray of the Northeast Mycological Federation

AUGUST 6 - 10, 2013 – RIMOUSKI, QUEBEC, CANADA

THE NORTH EAST MYCOLOGICAL FEDERATION (NEMF)

Foray will be held in the upper portion of Quebec Province, Canada. This Canadian club has over 1200 members and some of the best mycologists on the North American continent.

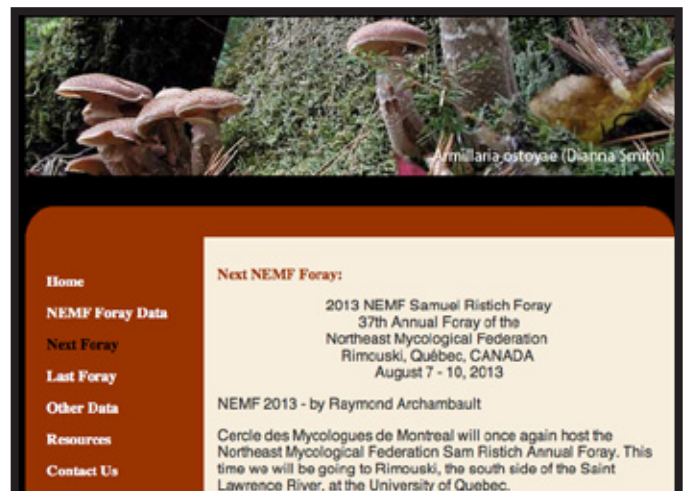
There will be 27 mycologists presenting at the foray, 7 of which are from the US. A list of the mycologist includes Gary Lincoff, Greg Marley, John Plischke III, Noah Siegel, Walt Sturgeon, Serge Audet, Renee LeBeuf, and many others. The foray is named in honor of the late mushroom expert, Samuel Ristich.

Rimouski is a long way from Pittsburgh, but worth the trip. You can attend the foray from August 7 – 10 or attend the Foray Plus from August 6 – 10. Along the way, stop in Quebec City and tour one of the outstanding cities on the North American continent.

Citizens of the United States MUST have a passport. The application can take up to six weeks, so you must apply now if you do not currently have a passport. Applications and related information are generally available at the post office or other federal offices.

For more information or to register:

nemfdata.org



2013 NAMA Digital Photo Contest

THE CONTEST IS OPEN to all mushroomers and a NAMA membership is *not* required to enter the photo contest. If you're not a NAMA member there is a \$4 entry fee by check or money order made out to NAMA. Images that have previously won (including honorable mention) are not eligible. **CLOSING DATE: All entries must be received by the Contest Director on or before AUGUST 4, 2013.** Allow at least one week for mailing. Up to 15 images may be entered per person. With a maximum of six in the pictorial, six in the documentary and three in the judges option to make a total of up to 15 images.

AWARDS: First, second, and third place prizes will be awarded in pictorial, documentary and judges option. Honorable mentions will also be noted for some pictorial and documentary photos. Prize(s) such as mushroom books will be given to first- through third-place winners.

THERE ARE 3 ENTRY CATEGORIES

PICTORIAL: This division is for single photos that illustrate the beauty and variety of fungi in form and color. Mushrooms should not be cut and look natural. Judging criteria include consideration of both technical (focus, depth of field, exposure, lighting, color, absence of distracting elements) and artistic (composition, color, background, lighting) aspects.

DOCUMENTARY: For single photographs especially suited as illustrations in a field guide or monograph, or for use in a lecture. Emphasis is placed on portrayal of key morphological characteristics such that the usefulness of the image as an identification aid is maximized. Subjects may be shot in the field, laboratory or studio and the photographer has complete freedom to cut, process, manipulate, or orient the specimen in any desired manner to achieve the goal. Close-ups of single features and photomicrographs are acceptable. Judging criteria will be the same as in the pictorial

category but they will be of secondary importance to the overall mycological utility of the photo. Accurate identification of the subject will be a consideration.

JUDGE'S OPTION: For single photos or series which do not fit into the pictorial and documentary divisions. Examples include time-lapse series, ecological relationships of fungi (e.g. fairy rings), fungi with animals, people enjoying fungi, humor, etc.

MARKING, LISTING AND SUBMITTING DIGITALS: The digital photos file name must include: **1) "D"** (for Documentary) **"JO"** (for Judges Option) or **"P"** (for Pictorial), **2)** (your) photographer initials, and **3)** genus and species of the fungi, or the title for the judges option photo. Digital images may be emailed or mailed on a CD or DVD and will not be returned.

Entry form: http://www.namyc.org/photography/contest_rules.htm

Mail entry fee (check payable to "NAMA") to:

John Plischke III
411 Center Avenue, Greensburg, PA 15601
724-832-0271 Fungi01@aol.com

If emailing in images please include your name, address and phone number. Images can also be submitted using free file mailing programs such as <http://www.mailbigfile.com/> or Dropbox etc.

REPRODUCTION: *Entry in the contest constitutes the consent of the photographer to allow NAMA to reproduce copies of each winning image (including honorable mention, etc.) for circulation or use by the Education Committee among the membership and affiliated societies. NAMA also reserves the right to post images of the winning images on the NAMA web pages and in the Mycophile and to be used by the marketing committee. All copyrights remain with the photographer.*



WPMC Member Rigel Richardson Apprentices with Berglorbeer Farma



RIGEL RICHARDSON

APPRENTICES PROVIDE BERGLORBEER FARMA with valuable assistance and new perspectives. In exchange, they receive a wealth of information about sustainable agriculture business, self-sufficiency, ecology, local foods, mushroom and plant propagation, networking, teamwork, and other valuable life and professional skills. Apprentices can also receive college internship credits for their work. At Berglorbeer Farma, we aim to grow together, fostering a mutual exchange of information, resources, and skills, and creating a win-win situation for all.

Rigel grew up in Southern California, but has lived in Pittsburgh since 2007 and has fallen in love with the ecology of Western Pennsylvania. She currently studies Art at Carnegie Mellon University, but also has studied Engineering and Biology. After working in a variety of environments, including a Nanofabrication Lab and the Section of Invertebrate Zoology in the Carnegie Museum of Natural History, her studies and interests have brought her to work on the farm this summer as a full-time intern living on the property for the summer in a yurt, a waterproof nomadic structure she built herself. Her diverse experience and love of mushrooms will inform her work with us this summer as she assists Dave with setting up our mushroom laboratory and cultivating new mushroom varieties. She also hopes to learn about our region's native plants.

Other Mushroom Programs:

The Outdoor Classroom

August 25 — 9am - Noon
Boyce-Mayview Park
Upper Saint Clair

\$15 / \$10 for WPMC members with current membership card.

To register: Contact Jessica at 412-838-0064

www.theoutdoorclassroompa.org

WANT TO KNOW HOW to make delicious meals from free wild mushrooms? Even wonder what fungus is growing in your backyard? Or are you just interested in knowing which mushrooms to keep away from your pets? Join The Outdoor Classroom in welcoming back the Western Pennsylvania Mushroom Club as they present this three hour mushroom extravaganza! We'll see a slide show and learn tasty ways of preparing, and more importantly identifying, our local mushrooms. Afterwards we'll venture onto the trails in search of any and all mushroom species we can find. Bring a camera for some great photo opportunities and a notebook to record all the species we find. Registration is requested for planning purposes and is required to receive the group discount.

John Plischke III will present a slide show and lead a walk. Bring mushrooms from home for identification.

The Outdoor Classroom • 1531 Mayview Road • Pittsburgh, PA 15241

Mushroom Mania

October 5 — 10am
South Park Nature Center

Learn the lore, see the strange, taste the terrific of local wild mushrooms. This is a park event open to the public: South Park Nature Center, Buffalo Drive, South Park, PA 15129.



David and Kristin Sewak
4265 Mount Carmel Drive
Windbar PA 15963
814-467-8762

INTERNSHIPS: Berglorbeer Farma is offering a college student an internship to provide them with a wealth of experience and hands-on education regarding the business of sustainable farming, while assisting Berglorbeer Farma.

Contact Kristin at kristin@berglorbeerfarma.com for a complete description or for more information or call 814-467-8762.

The results are in the first four DNA Barcoding samples

PROGRESS WAS STALLED for a few weeks while we tried to order the oligo primers needed for the polymerase chain reaction (PCR) from Sigma. They OK'ed the order but did not process it. We went with a different supplier, Integrated DNA Technologies and two days later the oligos were in our hands.

The oligos were dissolved and an aliquot of both oligos and the first FTA sample card were sent to MCLAB for PCR amplification and DNA sequencing on Monday 29th April. On Friday 3rd we received the results!

We tried out a number of tools for the analysis and one of the better sites that had multiple, easy to use tools was DNA Subway. Take the blue line for DNA barcoding analysis! Cold Spring Harbor Laboratory also has a nice introduction to DNA Barcoding.

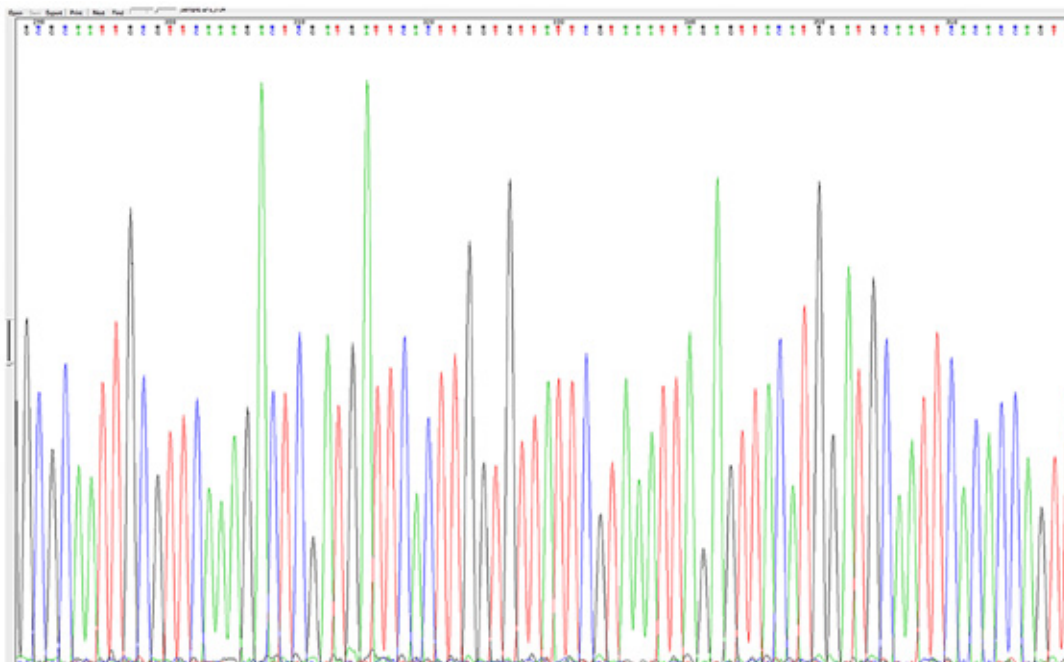
You can look at the results for the three samples that were successful on the following DNA subway page. Log in as guest to see the three different analysis.

We also searched the sequences with BLASTN and obtained the following results:



ID	Species		Primer	Expect	Bases	Query cover	
1	Craterellus tubaeformis	Uncultured ectomycorrhiza (Craterellus tubaeformis) clone SWUBC461	ITS4	0.0	798	96% (596/619)	✓
2	Laetiporus sulphureus	Laetiporus sulphureus isolate TJV95-84	ITS4	0.0	539	98% (516/525)	✓
3	Morchella	Uncultured fungus clone WME35	ITS4	6e-25	959	72% (179/249)	✗
4	Morchella	Morchella punctipes isolate DD06-21	ITS1	0.0	752	99% (679/680)	✓

Unfortunately BLAST only keeps the results available for two days due to the high traffic the site experiences.



DNA Sequencing trace from sample 1, *Craterellus tubaeformis*, viewed in Chromas.

Overall our success rate was 75% on our first try! The samples were a mixture of fresh, frozen and dried samples. We are now ready to start analyzing some locally acquired samples.

Recipe Corner

Savory Mushroom Pie by Valerie Baker

2-1/2 C onions, chopped

4 T butter

8 C assorted mushrooms, chopped (cremini, porcini, chanterelle, portobello, or even white button)

1/4 C Marsala wine

1 tsp thyme

1/2 tsp salt

black pepper (to taste)

1 T flour

pastry for a 2-crust pie

1 egg yolk mixed with 1 T water

Preheat oven to 400° F.

FILLING: Saute onions in butter over medium heat. When onions are soft and golden, add mushrooms and thyme. When mushrooms release juices and reduce in volume, add Marsala and continue cooking until juices reduce by half. Add salt and pepper. Sprinkle flour over mixture and stir a minute or so until juices thicken slightly. Remove from heat.

Prepare recipe for pastry for a two-crust pie. Roll out to a 14" circle. Fit dough into a 9" pie shell. There will be a wide overhang of pastry. Add the cooled mushrooms. Fold the overhanging edge of the pastry in toward the center to cover the outer portion of the filling, leaving about a 5" opening in the center.

In a small dish, beat egg yolk with water. Gently brush egg wash on the top crust with fingertips or a soft pastry brush.

Bake for 30 - 35 minutes or until crust is golden. Serve warm or at room temperature.

MEMBERSHIP:

PLEASE FORWARD ALL NAME, ADDRESS, PHONE, E-MAIL CHANGES TO: WPMC.MEMBERSHIP@GMAIL.COM OR
JIM WASIK • WPMC MEMBERSHIP • 70 WOODLAND FARMS ROAD • PITTSBURGH PA 15238

Western Pennsylvania Mushroom Club Officers & Committees

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WPMC MEMBERSHIP FORM

Anyone who has an interest in wild mushrooms is welcome to become a WPMC member.

COMPLETE THIS FORM **PRINT CLEARLY**, SIGN AND MAIL

Members are entitled to:

The WPMC newsletter • Nine monthly WPMC meetings • Free participation in WPMC walks • Fee discount for WPMC forays

Name (s) _____ Date _____

Address _____

City _____ State _____ Zip _____

Phone 1 _____ Phone 2 _____

E-mail _____

Interests (e.g.: foraging, identification, cooking, etc.) _____

Please print in plain block lettering. Take special care with email addresses: numeral "1", uppercase "i" and lowercase "l" look the same.

ANNUAL DUES: \$15 Individual \$20 Family \$10 Full-time Student Amount enclosed: \$ _____

Please return completed, signed and dated form (with check payable to Western PA Mushroom Club) to:

WPMC, c/o Jim Wasik, 70 Woodland Farms Road, Pittsburgh, PA 15238 e-mail contact: WPMC.membership@gmail.com
or visit www.wpamushroomclub.org to pay using credit card.

Please indicate your meeting location preference: Pittsburgh (Beechwood Farms) Washington/Greene County

Please indicate your newsletter/event announcement preference: Electronic via e-mail Hardcopy via US mail

Western Pennsylvania Mushroom Club Release and Indemnification Agreement

This Release and Indemnification Agreement (the "Agreement") is entered into by and between the Western Pennsylvania Mushroom Club, as it is presently organized and may be later structured ("WPMC") and the undersigned Member (the "Member") on this _____ day of _____, 20_____.

WHEREAS, WPMC is a non-profit educational organization that has as its principal purpose the sharing of mushroom-related information among its members; and
WHEREAS, all officers, directors, identifiers and members serve WPMC in a voluntary capacity and receive no remuneration for their services; and

WHEREAS, in cases where WPMC charges a fee for its forays, walks, lectures and other events (collectively "WPMC Events"), it is doing so only to cover its direct costs and does not operate in a for-profit capacity; and WHEREAS, the Member understands that there is inherent and unavoidable risk in outdoor activities relating to hunting and consuming wild mushrooms. These risks include but are not limited to the dangers of hiking in difficult terrain, the possibility of misidentifying a wild mushroom, and the possible allergic or toxic reaction that some individuals may have to otherwise edible mushrooms.

NOW THEREFORE, the Member hereby agrees to the following:

1. The Member assumes all risks associated with WPMC Events. The Member expressly acknowledges that it is the Member's sole responsibility to hike safely and to determine whether a wild mushroom may be consumed.
2. The Member releases, holds harmless, and indemnifies the WPMC, its officers, directors, identifiers, and representatives from any and all liability relating to any injury or illness incurred by the Member or the Member's family members as a result of participation in a WPMC Event.

This Agreement shall be governed by the laws of the Commonwealth of Pennsylvania. If any portion of the Agreement is declared for any reason to be invalid or unenforceable, such invalidity shall not affect any other provision of the Agreement. This Agreement shall apply to all current and future WPMC events.

MEMBERS:

Signature (if Participant is under age 21, signature of Parent or guardian)	Please print name:
1 _____	1 _____
2 _____	2 _____
3 _____	3 _____
4 _____	4 _____

Signed release form will be in effect from date of membership until termination of membership.



**Western Pennsylvania
Mushroom Club**

202 Wadsworth Drive
Glenshaw, PA 15116

WPMC Goals

- Provide organized walks and forays
- Teach scientific methods of wild mushroom identification
- Explore various art forms including photography, dyeing, and paper-making with mushrooms
- Share mushroom recipes
- Educate members and the public about the many aspects of wild mushrooms

Volunteers Needed!!

The annual Lincoff Foray will be held on Saturday, September 21, 2013 at Rose Barn in North Park.

Volunteers are needed for a variety of tasks including:

- Setup / Cleanup
- Hospitality / Greeters
- Walk leaders
- Identifiers
- Auction
- Audio – visual support
- Cooking

To volunteer, please contact Barbara DeRiso:
barbaraderiso@gmail.com

C'mon, we need your help!

Western Pennsylvania Mushroom Club



Fungi, fun and friends!

The newsletter of the Western Pennsylvania Mushroom Club is published five times a year: March/April, May/June, July/Aug., Sept./Oct., and Nov./Dec. Articles, photos, news items and other submissions should be sent to the editor at least 6-8 weeks prior to targeted distribution for the best chance of inclusion.

The editor cannot guarantee that submissions will be included in the next newsletter. The editor reserves the right to make spelling or grammatical corrections and may suggest content changes to the author.

Material published in our newsletters may be used in other non-profit publications only with expressed permission and with appropriate acknowledgements.

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NORTH AMERICAN MYCOLOGICAL ASSOCIATION (NAMA): www.namyco.org

POISON CONTROL CENTER: 1-800-222-1222