On April 15, 2019, Aaron Peters, a member of MOMS Springfield Chapter, was looking for morels at Rock Creek in Cassville, Missouri when he spotted something very special at the base of an Oak tree… not the pattern of ridges and pits his eyes had been primed to see that day, but something he described as “… a yellowish stem with a brown cap, shaped like a match stick on the forest floor.” In a flash Aaron’s focus changed from morels to this unfamiliar fungus that he thought might be a species of Tolypocladium, an obligate parasite of certain truffles.

Just a few months earlier, in December, he had found a Tolypocladium spp. He posted that observation on the iNaturalist and Mushroom Observer web sites where it was seen by Richard Tehan, a Graduate Research Assistant at Oregon State University who is studying various species of Cordyceps. A cooperative relationship was formed between the two men then, so Aaron knew exactly what to do with this new specimen.

He began to very carefully excavate the specimen from the surrounding soil expecting to retrieve the host truffle.

Ophiocordyceps tortuosa nom. prov.
A Previously Undescribed Species Documented in Missouri
By Judi Thomas

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August 2019

The Earthstar Examiner
Newsletter of the Missouri Mycological Society

UNDESCRIBED SPECIES continued on page 2
New Species Documented in Missouri

UNDESCRIBED SPECIES from page 1

Much to his surprise, what Aaron found instead just an inch or two beneath the soil, was the mum-
mified body of a beetle larva. Aaron contacted Richard who identified the find as Ophiocordy-
ceans tortuosa nom. prov., the first of this new species ever recorded in Missouri.

After vouchering the newly found specimen, Aaron sent it to Oregon with the necessary paper-
work where Richard was able to extract DNA for sequencing. When completed the sequence will be posted on MycoBank and Aaron’s specimen will serve as the type species to be deposited in an herbarium for scientists to study for decades to come.

Aaron says he joined MOMS in the Fall of 2018 because he was “… excited by the challenge of identifying the various types of mushrooms [he] saw while running in Mark Twain Park after mov-
ing to Missouri.” Since Aaron’s encounters with the Tolypocladium and Ophiocordyceans, he has found a third species of Cordyceans and is already becoming quite an expert on these fascinating fungi.

1 Richard Tehan had previously found and identified four specimens of Ophiocordyceans tortuosa nom. prov. in Arkansas.
2 Vouchering consists of photographing and drying the speci-

New Earthstar Examiner Editor Needed!

As much as I have really enjoyed being the editor for the Earthstar Examiner on and off for the past seven years, the time has come for me to pass along the torch. I invite anyone interested in taking over the position to call me to discuss responsibilities. I will be happy to assist in the transition and help solicit articles as well as proof and any other support you might need. 303-775-7084

Here's more info about the position: Four newsletters per year in February, May, August and November.
• Professional graphic design assistance, no design knowledge required
• Newsletters include, articles about major event pri-
or and post, recipes, calendar, and any other articles from members or reprints from other publications.
Missouri Botanical Gardens Archives Gem

By Stephanie Keil

Going through some archive pictures at the Missouri Botanical Garden, I came across this one which caught my eye. It is the Missouri Botanical Garden exhibit at the 1904 St Louis World’s Fair. I was very excited to see mushrooms in jars on display!

This collection belonged to Dr. Noah Miller Glatfelter. He was an American physician, genealogist, and amateur botanist and mycologist who lived in St. Louis, Missouri, between 1867 and 1911. In the late 1890s, his interest turned from botany to mycology, having gained interest in mushrooms through the membership of his daughter Lisbeth in the Boston Mycological Club, which was the first mushroom club in the United States. His primary correspondents were Curtis Gates Lloyd and Charles Horton Peck, and he met George F. Atkinson at the St. Louis World’s Fair.

Dr. Noah Miller Glatfelter’s collection of edible and poisonous mushrooms was part of the display of the Missouri Botanical Garden at the Fair. He compiled a list of over 500 species of St. Louis area mushrooms, which was published in 1906. The title of this list is “A Preliminary list of higher fungi collected in the vicinity of St Louis, Mo.; from 1898 to 1905,” from the Transactions of the Academy of Science of St. Louis, Vol. XVI, #4, 1906. His list of fungi was used as one of the sources for a checklist published by the Englemann Botanical Club in 1911 titled “A Preliminary Checklist of the Cryptograms and Phanerogams in the vicinity of Saint Louis, Missouri.” There remain seven fungi named for him in the Index Fungorum, three of which are synonymous.

He continued to collect specimens until 1911, in order to update his list of plants and fungi compiled by the Englemann Botanical Club. Dr. Glatfelter died on April 2, 1911, after a fall from a ladder. He is buried in Bellefontaine Cemetery in St. Louis with the rest of his family, with the exception of two of his children.

The collection of fungi at the Missouri Botanical Garden went on to the U.S. National Fungus Collections in Beltsville, Maryland. We still have some neat fungi books in the Peter H. Raven library, located in the Monsanto building at 4500 Shaw Blvd, St. Louis, MO 63110.

Please make an appointment with me if interested in visiting. skeil314@momyco.org.
Bi-monthly Meetings
By Maxine Stone

We have two more Bi-monthly meetings in 2019… Tuesday, September 10 and Tuesday, November 12. They are both at Powder Valley Nature Center and at 6:00pm.

Tuesday, September 10:
We are very lucky to have William Pauley as our speaker on Tuesday, September 10. William is chef and owner of the amazing restaurant Confluence Kombucha, a vegan GastroLAB. Confluence Kombucha serves some of the most beautiful, innovative, healthy, and tasty food in St. Louis. Every dish is hand crafted to perfection. Not only are they amazingly delicious and different but they are also gorgeous creations. Given the name of the restaurant, William’s specialty is Kombucha. He creates many different tastes and flavors and they are really great. At the restaurant, you can get a flight so that you can taste some of the many varieties. Maybe he’ll bring some for us to taste. William will talk about his passion and love of fermentation and also about his kombucha. Please come to this fun and unusual talk.

Tuesday, November 12:
This is our annual Photo Show…with photos from YOU. Bring your flash drive with some of the photos you’ve taken all year. In the past we’ve had some pretty wonderful shows. Don’t be shy. It will be a lovely evening.

Calendar

To see a full calendar of events and for the most up-to-date information concerning cancellations, additions and/or changes, please visit:

MoMyco.org/calendar

To see events for a specific chapter you may click on it below:

ST LOUIS CHAPTER EVENTS
MID-MO CHAPTER EVENTS
SPRINGFIELD CHAPTER EVENTS
KANSAS CITY CHAPTER EVENTS
SEMO CHAPTER EVENTS

NAMA Newsletter Editor Needed

Mycophile needs a new editor. If you are interested, you’d be joining a team of skilled and supportive proof/copy editors and columnists (a science editor, a book review editor, an art columnist, a culinary columnist) and a professional designer who takes care of fitting the articles and graphics into the newsletter's template.

Your main responsibility would be developing timely and interesting content while maintaining a bi-monthly publication schedule: soliciting new articles, choosing articles from club newsletters and other sources to reprint, and publicizing NAMA and affiliated club events.

Experience is helpful but not necessary. The team has plenty of experience to and enthusiasm for welcoming and supporting our next editor.

Contact Barbara Ching (president@namyco.org) to learn more.
Fall Mushroom Recipe

By David Yates

There are two very delicious hericium mushrooms that grow here in Missouri Hericium colaroised and Hericium erinaceus. They are typically found in the fall but can be found starting in the spring all through summer depending on weather conditions.

Both are delicious and can be prepared in many ways. This recipe is one of my all-time favorites as a near vegan. It mimics crab salad and I’ve fooled many mushroom haters into eating and loving these mushrooms.

Hericium Salad
Servings: 6

2 cups hericium
Juice of 1 lemon
1 stalk celery
½ cup mayonnaise
1 tsp dill
Salt and pepper

Parboil hericium in water with lemon juice for about 10 minutes. Drain and squeeze out water. Tear or chop hericium into bite-sized pieces. Mix with remaining ingredients in a large bowl. Serve and enjoy.
Brad’s Fall Foray: Oct. 3 - Oct.6

By Stephanie Keil

We are staying at our own private “camp” at Camp Clover Point, Lake of the Ozarks State Park. There are barracks and cabins with modern restrooms and showers for lodging, a beautifully equipped kitchen and dining room, a great rec hall, plus a nice waterfront for swimming and boating, if the weather cooperates. Camping at Lake of the Ozarks State Park offers basic and electric campsites. To make a reservation for camping call toll free 877-422-6766. If you prefer a hotel for your lodging, the closest town is Kaiser, MO where you’ll find reasonably priced motels.

Location: Lake of the Ozarks State Park is on 403 Highway D, Kaiser, MO 65047-2191. We are staying at Camp Clover Point Driving time from Osage Beach, MO to Camp Clover Point is about 16 minutes.

Volunteers needed! BFF is a great event because of the talented folks who volunteer for the many tasks. The organizing committee needs volunteers to help to scout for good foraging locations, foray leaders for Saturday outing, assisting in the kitchen and, of course, people to help set up and clean up.

Main Event: BFF- Brad’s Fall Foray
Location: Lake of the Ozarks, Camp Clover Point
Presented by: St. Louis Chapter
Attendance: Members and non-members are welcome
Registration: Please register here - https://mo-myc.co.org/fall_foray_2019.cshtml or contact person listed below
Fee: tbd
Contact person: Stephanie Keil
Contact email/phone: skeil@momyco.org 314-249-3067

MO-NAMA 2020

The board has voted, the national organization has agreed, the chair has been chosen. Missouri is going to host the NAMA (North American Mycological Association) national conference in October 2020. The dates are October 8-11, 2020 and it will be held at Trout Lodge in Potosi.

The facility is quite nice with good food, comfortable lodging available at several price levels, and a staff that is enthusiastic about hosting us. Nearby state and national parks have excellent mushroom hunting possibilities and reasonably priced camping sites.

Mark your calendars now and please think about volunteering on the planning of this fun event.
Contact Maxine Stone, VeryMaxine@aol.com, 314-420-4980.
Get involved with MOMS! Current Opportunities

From the President - Sonya Pelli

Strong organizations, have strong and committed members. MOMS shines nationally because of you. MOMS members, are a talented and devoted bunch. You organize, attend and volunteer at events, organize and lead forays, participate in research, speak about mushrooms and the club when asked, teach and attend mushroom classes, do data entry, keep the books, post to social media, organize big events, manage websites, create beautiful graphics and layouts, organize, contribute and participate in silent auctions, manage memberships, write articles, offer recipes, volunteer to cook delicious meals and contribute to the best potlucks, and so much more.

The club is strong and big and offers many opportunities to get involved and learn new skills. If you would like to be more involved let us know.

Currently there are several opportunities available. Check these out and if you are interested contact Sonja Pelli, MOMS President, at spelli@momyco.com to learn more.

**Foray Chair** - Are you a foray hound? Consider helping organize the foray schedule in the St. Louis area in 2020. This requires contacting previous foray leaders, confirming times and locations, producing a schedule and working with the webmaster to post the finalized schedule on momyco.org by February.

**MO-NAMA 2020 -Forays Scouting** - Do you want to help scout foray locations in the National Mark Twain Forest near Trout Lodge this October for the 2020 North American Mycological Association Annual Foray? Scouting for foray sites is fun but it does require time. Several hours of your time for each outing. The reward is, of course, discovering new hunting spots and contributing towards a great experience for NAMA members traveling to Missouri in 2020 for their annual foray.

**Earthstar Editor** – The Earthstar Examiner is how we reach the majority of MOMS members and let everyone know what’s going on around the State. If editing and writing is your thing, why not marry your love of writing and your love of mushrooms and become the Earthstar Examiner editor in 2020. Our long-time editor, Cici Tompkins, is stepping down at the end of the year and we are looking for a new Earthstar Examiner newsletter editor to begin November 2019 and produce the February 2020 edition. The editor coordinates the publication of four issues annually (February, May, August, and November) and works with a graphic designer and a number of contributors. Cici will be available to coach a new editor through the end of the year. Feel free to contact her at ctompkins@momyco.org or 303-775-7084

**Legal expertise** - MOMS wants to offer scholarships and small grants to promote mycology research around the state. To do so, we need help with updating our articles of incorporation and by-laws. If you have legal experience with not-for-profit organizations we, and future grantees, would really appreciate your help. This does not entail a complete re-write, just updating sections to bring us in line with IRS guidelines and help us file the proper documents.

**Treasurer** - Keeping MOMS financial affairs in order is rewarding and essential. If you have experience with accounting and finances and you like doing it, MOMS is looking for a new treasurer beginning in January 2020. If interested, you would be asked to shadow our treasurer’s Kent Lemp a couple of hours a month this Fall to learn the ropes.

**NAMA 2020 in MO** - With the NAMA 2020 Annual event in Missouri, MOMS will be called to engage all of its membership talents and skills for the planning and the event itself.
**MOMS MISSION STATEMENT**

- Foster and expand the need, understanding and appreciation of mycology.
- Provide education and training for the proper collection, identification and documentation of fungi.
- Provide a means for sharing ideas, experiences, knowledge and common interests regarding fungi.
- Support efforts to preserve natural environments in the State of Missouri.

Thank you for supporting the Missouri Mycological Society!