



Tennessee Cave Dirt

Welcome {{ contact.FIRSTNAME }} {{ contact.LASTNAME }},

Breakfast and Lunch

- At the fairgrounds, Vinnie T's will be serving breakfast Sunday - Friday at booth #5 from 6:30 - 8:30am. Credit cards ARE accepted.
- At the high school, for breakfast or lunch the cafeteria can only accept CASH or CHECKS at this time!

Luminary Series

All Luminary Series sessions will be held at noon in the Auditorium.

Led Cave Trips

Led cave trips leave from the north gate over in the area of cave information booth.

prAna Presentation Canceled

The prAna Presentation scheduled for 1:00 PM in the auditorium has been canceled.

Volunteer Needs

- *Monday & Tuesday* - Registration shifts are available between 8AM and 5PM.
- We also need gate security *everyday*.
- Help is also needed for the *Howdy Party*.
- *Wednesday Evening* Speleo-Auction - Two special volunteers are needed for the Wednesday evening Speleo-Auction. After many years of taking on the task, Jean and Jessica DeVries will not be at Convention this year. They have staffed the accounting table where items sold are recorded and matched to the buyer details. This is not a physically demanding job (no running or hauling stuff), but requires an alert staff with attention to details to get the recording correct.

If interested see sign-up near registration or email mgmills52@gmail.com

Fine Arts Opening Reception

The Fine Arts Salon, including Prints, Cover & Graphic Arts, and T-Shirts & Symbolic Devices, will be open for viewing and sales at noon on Monday. Light refreshments will be provided by Speleobooks. The Salon is located in the upper gym.

3D Smorgasbord Encores

Benjy von Cramon has graciously offered encore showings of his presentation on Wednesday. Based on interest, tentative times are at Noon, 2 and 4:30. There will be a sign-up sheet outside of room 30. Please sign-up if you're interested.

Timpanogos Cave Virtual Reality Demonstration

Too ~~hungover~~ tired to go caving? Decon getting you down? Come experience a virtual reconstruction of Timpanogos Cave National Monument! Signups are at the door of Room 37. Walk-ins first come first serve. Demos available Mon/Tues/Thurs: 9am-12am.

PS: This graduate project is made possible by a CESU agreement between Timpanogos Cave National Monument and the University of Arizona. As such it is a work in progress and doesn't necessarily reflect the finished product. We'll have a disclaimer for people about it on the door.

State Cave Survey Session Room 225 (Updated schedule and abstract)

- 2:00 - 2:10 Intro and welcome, Kalnitz
- 2:10 - 2:30 Status Update for the Georgia Speleological Survey, Zetterberg
- 2:30 - 2:50 Missouri Cave Database - a comprehensive tool for cave management, Sutton
- 2:50 - 3:10 County Coordinator Survey Initiative Program, Brewer
- 3:10 - 3:25 Break
- 3:25 - 3:45 The Indiana online planning and reporting toolkit for dye tracing, Florea
- 3:45 - 4:05 State Cave Survey Specific Tools in ArcGIS, Kalnitz
- 4:05 - 4:25 Tennessee Cave Survey "Big data" and the Tennessee Cave Survey, Sutherland
- 4:25 - 5:00 Managing Regional Cave Data ; using ArcGIS to warehouse Archive Data ,Arpin & Tobin

MANAGING REGIONAL CAVE DATA: USING ARCGIS TO WAREHOUSE ARCHIVE DATA

Sarah Arpin and Benjamin Tobin
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Grand Canyon National Park manages approximately 400 known caves with only an estimated 15 percent of karst in the park explored. Within these caves are incredibly significant mineralogical, biological, archaeological, and paleontological resources. The National Park Service is mandated to manage and protect these resources; however, a good data management system is necessary to do so effectively. Currently, these datasets are managed separately as geospatial, tabular, graphical, and many other data types. We implement a new system that compiles all existing data into one, easier-to-process management system. The goal is to simplify and streamline the system so the large quantity of data, including many different data types, is stored, managed, and retrieved using a single program while also maintaining

functionality. By adding attachments to features in GIS and storing the attachments in a file geodatabase, the documents and files related to the caves are linked to each individual feature. These documents and files are also stored within the same database that contains the cave features and their attributes. Not only does this new method eliminate the need for external storage, all data are stored together. Regardless of where or how the data are accessed, there is no worry about lost connections; all data are always linked and immediately available to the user. This new method of data storage and access in ArcGIS greatly improves upon the current database model and is applicable to all large database and archival systems.

SURVEY COMPETITION

Think you're a good surveyor? The 2019 National Speleological Society Survey Competition will put your skills to the test. Located in the campground directly adjacent to the cave information booth, the course consists of 12 established stations from which you (teams of up to 3 people) will collect and record data. Either use your own set of instruments (no Disto's!) or check out a compass, clinometer, and tape at the booth (courtesy of Sewanee Mountain Grotto). Loaner instruments are only available while the booth is manned (7-10 AM and 4-7 PM), but the course is open all hours of the day and night from Monday at 8 AM to Thursday noon. Simply pick up a blank data sheet from the "Survey Competition" clipboard at the cave information booth, then get "on station!" Stations are pre-numbered and clearly marked with flagging tape. No sketching required! When you finish, return your data sheet to the box at the booth. Surveys will be judged on accuracy and loop closure, with prizes for the first, second, and third place winners. Winners will be announced 5 PM at the Cave Information Booth at the Fairgrounds Contact Hali Steinmann (halisteinmann@gmail.com) for further information.

Howdy Party

The Howdy Party will open with food starting at 6:30pm under the big-top tent. This is the official meet-and-greet for convention-goers. The "High 5" band from Whiteside Mountain, North Carolina will rock from 8:00 till 11-ish pm. Check them out on Facebook at High5@checkthehitch.

James G. Mitchell Award

The James G. Mitchell Award may be awarded for the best scientific paper presented at any of the sessions of the convention by a member (or members) of the NSS who is a current student. Papers will be evaluated primarily on how well they exemplify sound methods of scientific research and presentation, and secondarily on their contribution to scientific knowledge. Presenters desiring to be considered for the award should contact Mike Backe at Awards@caves.org. Please provide the presenters name, NSS No., student status, paper title, session presented in, and the scheduled date and time of the presentation.

James Gage Donations

Rebuild the Cabin on the James Gage Preserve property. \$30,000.00 needed. Donations should be dropped off at Speleobooks with Property Managers Emily or Mike.

Convention Recycling

We have worked very hard to reduce the amount of single use plastics used at Convention. This includes paper plates and corn starch based biodegradable cutlery for the banquet.

There will be aluminum and plastic recycle stations around the high school

and the campground. Please empty all cans and bottles BEFORE placing them in the recycling containers. There will also be a recycling dumpster at the campground for aluminum and plastic. We are trying to get a glass recycling dumpster placed at the campground as well.

Let's see if we can make this an environmentally friendly convention. Please recycle as much as you can!

SCCi

Show everyone that you help save caves by stopping by the SCCi booth in vendors row. Purchase a tshirt, cap or mug to help preserve the caves you love.

Terminal Syphon T-shirts

Terminal Syphon T-shirts \$10. Albert made 25 Terminal Syphon T-shirts. If you want one before the gig, find Albert Ogden in the Groad Hollow campground area.

Speleobooks

Daily Discounts 10% off.

- Monday - Batdannas, sarongs and hats
- Tuesday - Used & out of print books
- Wednesday - Pint glasses and Mugs
- Thursday - Quilts

CaveSim

CaveSim is at Convention, and it's the coolest place to hang out (thanks to our new air conditioning)! Come see what else we've added to the mobile cave -- visit CaveSim at Cookeville High School outside the gym (on the south side of the school) any day this week (M-F, 9AM-5PM). If you meet any Cookeville residents, be sure to invite them to CaveSim, which is free. Also, we like Tennessee, but we'd also love to be able to get back to Colorado. Will you help us? We're still looking for individuals, grottos, and other organizations that want to sponsor CaveSim to help with our return trip. Stop by CaveSim to make a donation in any amount.

Hotel Room

Looking for someone to share a motel room this week. Call Jim "Crash" Kennedy @ 512-663-2287.

Speleo-Auction

7pm Wednesday Auditorium Benefitting NSS

Come out and join us for the annual NSS Auction and Fundraiser. Bring your checkbook or credit card and bid on the many speleo-treasures that will be offered. Proceeds go to the NSS. Donations of items for the auction are welcome and can be dropped off at the NSS Bookstore area prior to Wednesday at 5pm. Many auction items will be on display before the event at the NSS bookstore.

Donations of items which will be of interest to cavers and sell competitively are encouraged. Vintage items such as NSS Newsletter and Bulletin prior to 1950 may be highly sought after. Artistic bat memorabilia may sell for some value. Halloween decorations should go elsewhere. Bundles of NSS News and other recent publications will not be accepted. Donated items become the property of the NSS. Donations may be tax deductible. Check with your tax

advisor or the IRS for deduction determination.

Headquarters/Team 404 Donors

If you donate \$300 or more per year towards the Headquarters you are a Team 404 member. Come by the NSS Bookstore to pick up your pin for 2019. Thank you for your support.

NSS Matching Donation Opportunity

A generous member has pledged to match up to \$25,000 in donations to the NSS through July 31, 2019. You can make your donation at the NSS Bookstore during convention, or through the caves.org website anytime. And of course you can always mail in a check to NSS Headquarters.



**NOW IS THE PERFECT TIME TO
SUPPORT THE NSS**

**A generous NSS Member has committed to
MATCHING DONATIONS
UP TO \$25,000 that are received
NOW through July 31, 2019**

The 2019 NSS Convention will be held in Cookeville, Tennessee June 17-21, 2019.

Please submit newsletter requests to: nss2019newsletter@subworks.com

Please visit the convention website at: nss2019.subworks.com

High School Wifi: SSID: nss2019, Password: nss2019tn

Stan White #63969
Newsletter Editor

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