



BREAKDOWN

Volume 31, Number 1, April 2016

The *MAR Breakdown* is the journal of the Mid Appalachian Region of the National Speleological Society. It is published three times a year; prior to the annual business meeting and prior to the Spring and Fall field meets.

Subscriptions-

Event notices and MAR Breakdown newsletters are distributed electronically. When you attend a field meet, the email address provided on your registration form is added to the distribution list. You may also add yourself to distribution by going to <http://eepurl.com/P2f5j> and completing a short registration form.

Meetings and Meets-

The annual business meeting is held the last Saturday in February. Each spring and fall there is a field meet. Watch for dates.

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Spring MAR 2016

May 13-15

Harper's Memorial Park Shade Gap, PA



Franklin County Grotto's 35th Anniversary



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Mid-Appalachian Region of the National Speleological Society

ANNUAL BUSINESS MEETING MINUTES

February 27, 2016

The meeting was called to order by MAR Chair, Paul Winter, at 1:43 PM, February 27, 2016, at the Mount Laurel Church of God, Harrisburg, Pennsylvania.

Introductory Remarks: Paul Winter thanked the organizers for facilitating use of the meeting space at the Mount Laurel Church of God.

Secretary's Report: The Secretary's Report was read by MAR secretary, Hope Brooks. The minutes were accepted without change.

Treasurer's Report: The Treasurer's Report was read by MAR treasurer, Elizabeth "Bette" White. Printed copies were distributed. Total income of the year was \$683.06, with \$2,005.84 in expenditures.

Net income loss for the year was \$1,322.78.

Vice Chairman's Report: No report.

Chairman's Report: The online MAR listserv was used for an online election for officer elections due to a lack of MAR Field Meets. Approximately 50 votes were turned in, most votes were for the current board, and there were a few write-ins.

MAR Breakdown: The MAR Breakdown report was given by Gretchen "Red" Schock. The MAR breakdown was printed and distributed on schedule electronically. If you are not receiving notice of MAR Breakdown publication, please let Red know.

2015 Field Meets: No report.

MAR Web Site and Listserv: The MAR webmaster, Christopher Catherman, reported that the MAR website and listserv remain functional. In 2016, the web fee increased to \$22 from \$12. As we continue to digitize MAR Breakdowns and post high-quality pictures, our web fee may increase. Christopher would like to solicit reviews of the current MAR web site via email from users of the website.

MAR Bulletins: Will White reported that *MAR Bulletin #22: Caves of the Middle-Susquehanna Valley* has been published and is on sale for \$16.

The MAR bulletin of Huntingdon County is moving forward. Will also solicited further efforts to update the bulletins.

Pennsylvania Cave Database: An update on the Pennsylvania Cave Database will occur at the PCC meeting following the MAR Annual Business Meeting.

Pennsylvania Game Commission (PGC): Karen Bange reported that she has been in contact with Greg Turner regarding cave closures due to Northern Long Ear Bats (NLEB). Greg has provided a provisional list of 85 caves which had NLEB and which entrance during hibernation will be considered a federal offense. Discussion about the potential cave closures, bat biology, and federal law ensued.

Mid-Atlantic Karst Conservancy (MAKC): Dave Field reported that MAKC held their quarterly meeting. Hall cave was inspected by the PGC, and they found four bats. Harlansburg and Bear Caves are being studied by researchers at Mercyhurst College.

The MAKC library is in order, and the library cataloging is about 95% complete. Within the next few months, the catalog will be uploaded on their website. The library is used by WVU graduate students. After the catalog is online, an announcement will be sent out to universities and colleges with geology departments in the tri-state region.

Pennsylvania Cave Conservancy (PCC): Pat Minnick reported that there will be a PCC meeting following the MAR Annual Business Meeting.

WNS and Bat Health: No further report.

New Business

2016 Spring Field Meet: Pat Minnick reported that Franklin County Grotto is hosting the Spring MAR Field Meet May 13th-15th, 2016 at Shade Gap. Registration is online, and you can pay online. T-shirt was designed by Dave Briggs and can be ordered online. Price is \$25. The PCC

will host a pancake breakfast on Sunday morning, and the MAKC will provide coffee on both mornings. An information flyer will be available by April.

2016 Fall Field Meet: Sarah Ulrich Bidlespacher reported that Bald Eagle Grotto will host the Fall MAR Field Meet September 23rd-25th, 2016 at Woodward Cave. They are looking into setting up online registration.

MAR Direction Signs: Steve Shawver still has the signs, and Franklin County will get them for the Spring MAR.

After Meeting Meeting (AMM): Mark Wolfe announced that he will host an AMM after the PCC meeting.

MAR Mailing List: George Bange reported that the MAR mailing list is working well, and 307 people are currently on the MAR mailing list.

Commander Cody Caving Club: Michael Mostardi reported that Commander Cody Caving Club is hosting their 40th anniversary party at Thorn Spring Park in Franklin, WV May 7th-8th, 2016. There will be catered food, and the price is \$25.

The Commander Cody Caving Club's address has changed, and Christopher Catherman will update the MAR website to reflect the changes.

Valley Quarries, Williamson County: Franklin County Grotto member Don Arrowood announced that access forms distributed by the Valley Quarries for access to the "P caves" have been updated. The new forms are annual. There will be no access to the caves during hunting season, and more details are coming.

MAR Bulletin #7: Bette White reported that *MAR bulletin #7: Caves of Fulton County* has been reprinted with the good Bernard Smeltzer map.

New River Cave Nature Preserve: Carol Tiderman noted that enough funds have been secured and that the last payments will be made shortly.

Karst Information Portal: Mike Spencer reported that the Karst Information Portal (KIP), which aims to create a central library of karst information, has created a controversial database

which includes cave locations, cave owner contacts, maps, etc. published unredacted. The NSS cannot force the KIP to remove cave information. Also, NSS has posted a specific act mandating that convention guidebooks will be posted on the KIP 2-5 years after the Convention. Greater Allentown Grotto has put forward motions to the Congress of Grottos and the Board of Governors to figure out ways to deal with past and present publications. Mike Spencer plans to run for a position on the BOG and KIP politics will be his sole platform. He recommended that the MAR put together a letter to the BOG, not just the president of the NSS.

Paul Winter noted that KIP has reached out to a large number of grottos. KIP is willing to have redacted newsletters, but grottos have to redact the information themselves (KIP will send them the scans) if they want that. Amos Mincin has also sent a letter out supporting Mike Spencer's view.

Dean Snyder moved and Judi Stack seconded to prevent MAR bulletins from being digitized and made public. The motion passed. Eric Pelkey noted that MAR Field Meet Guidebooks often use quoted portions of the bulletins and questioned how that might impact guidebook creation. Paul Winter raised the point that guidebooks should not be copying sections of bulletins without permission.

Christopher Catherman discussed the possibility of having a private section of the MAR website for the MAR Breakdown or any other need to limit sensitive information to the general public. Carol Tiderman raised concerns that our financial information is sensitive.

Meeting Location: Judi Stack wanted to know if the MAR would like to meet at the Mount Laurel Church of God in Harrisburg, Pennsylvania. The attendees at the MAR Business Meeting unanimously indicated they would like to return next year.

Rupert Cave: Rupert Cave was purchased 20 years ago, and Karen Bange made a scrapbook celebrating 20 years at Rupert.

MAR Field Meet Profit/Loss: Paul Winter raised the point that the MAR takes half the profit and none of the loss from Field Meets. Hope

Brooks moved to retain the \$1 fee to the MAR from Field Meets and cut the Field Meet profit shared to the MAR from 50% to 25%. Judi Stack has seconded the motion. Motion passed.



Good turnout for the meetings (photo by Karen Bange)

Upcoming Events

Spring VAR Field Meet – Endless Caverns & Campgrounds, New Market, VA – April 22-24, 2016

40th Anniversary Event of Commander Cody Caving Club – Thorn Springs Campground, Franklin, WV – May 6-8, 2016

Spring MAR Field Meet – Harper's Memorial Park, Shade Gap, PA – May 13-15, 2016

Spring NRO Field Meet – Historic Valley Campground, North Adams, MA – May 20-22, 2016

Kentucky Speleofest – Lone Star Preserve, Bonnieville, KY – May 27-30, 2016

Butler Cave Conservation Society Memorial Day Project Weekend – Butler Homestead, Burnsville Cove Area, VA – May 27-30, 2016

SERA Cave Carnival – Pigeon Mountain, Near LaFayette, GA – June 2-5, 2016

NSS Convention – Ely, NV – July 17-23, 2016

Old Timers Reunion – OTR Site/Campgrounds, Dailey, WV – September 1-5, 2016

Fall NRO Field Meet – TBD – Fall 2016

Fall MAR Field Meet – Woodward Cave and Campground, Woodward, PA – September 30 - October 2, 2016

Butler Cave Conservation Society Annual Meeting – Butler Homestead, Burnsville Cove Area, VA – October 1, 2016

TAG Fall Cave-In – TAG Site (Little River), Lookout Mountain, Near Trenton, GA – October 6-9, 2016

Bridge Day – New River Gorge Bridge, Fayetteville, WV – October 15, 2016

A motion was made to adjourn the meeting. The motion carried.

Meeting adjourned at 3:19 pm.

Respectfully submitted,

Hope Brooks

MAR Recording Secretary

Representatives at the MAR meeting:

- Bald Eagle Grotto
- Baltimore Grotto
- Cave Hill Grotto
- Central New Jersey Grotto
- Commander Cody Caving Club
- Franklin County Grotto
- Greater Allentown Grotto
- Huntingdon County Cave Hunters
- Loyalhanna Grotto
- Nittany Grotto
- Northern New Jersey Grotto
- Philadelphia Grotto
- Seven Valleys Grotto
- York Grotto

Gross Assets: February 22, 2015

375.68

20,585.54

3,541.52

24,502.74

480.31

19,158.13

3,541.52

23,179.96

.....-1,322.78

NET

..... 23.81

-2,005.84..... -1,322.78

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MAR Bulletin Sales Feb 2015 – Feb 2016

Bulletin #	Number Sold	Price/Bulletin	Bulletin Income	Bulletins + postage
1-4	1	\$ 7.00	7.00	
5		\$ 8.00		
6	1	\$17.00	17.00	
7	3	\$ 5.00	15.00	
8	2	\$ 7.00	14.00	
9	2	\$10.00	20.00	
10	4	\$ 5.00	20.00	
11	2	\$10.00	20.00	
12	4	\$10.00	40.00	
13	5	\$ 10.00	50.00	
14	3	\$ 5.00	15.00	
15	2	\$ 6.00	12.00	
16	3	\$ 6.00	18.00	
17	4	\$ 5.00	20.00	
18	3	\$10.00	30.00	
19	3	\$ 7.00	21.00	
20	3	\$29.50	88.50	
21	8	\$27.50	220.00	
postage paid			MAKC did not pay \$10.00	26.75
Totals	53		\$617.50	654.25



Pennsylvania Cave Conservancy, Inc.

P.O. Box 373, Neffs, PA 18065

Minutes of Regular Meeting - February 27, 2016

The meeting was called to order at 3:55 pm by President Pat Minnick at the Mt. Laurel Church of God, Harrisburg, PA on Saturday, February 27, 2016.

The following officers were present:

President	P. Minnick	Vice President	C. Catherman
Secretary	G. Schock	Treasurer	J. Boswell

Representation was as follows:

Bald Eagle Grotto	J.D. Lewis	Greater Allentown Grotto	Mike Spencer
Baltimore Grotto	Craig Hindman	Huntingdon Co. Cave Hunters	Dean Snyder (proxy)
Bucks County Grotto	---	Nittany Grotto	Paul Winter
Cave Hill Grotto	Dave Briggs	Philadelphia Grotto	Amos Mincin
Central New Jersey Grotto	Amos Mincin	Seven Valleys Grotto	Joe Schock
Commander Cody Caving Club	Mike Mostardi	York Grotto	Randy Hurst
Franklin County Grotto	Pat Minnick		

Secretary Report: The minutes from the September 27, 2015 meeting were read and accepted as published in the January 2016 MAR Breakdown.

Treasurer Report: John Boswell provided the latest treasurer's report (see below). The current CD interest rate with F&M Trust Bank is 0.25%. John researched possible avenues for investment that would continue to keep the PCC funds available for use when needed. The results of that research were provided to the meeting attendees, concluding that the best interest rate was found to be approximately 1.0%. Due to the minimal monetary benefit for moving funds to one of these accounts, it was decided to keep the CD funds in their current location, knowing that the researched accounts continue to be a possible option for the future.

Pennsylvania Cave Conservancy

Financial Summary

9-27-15 Thru 2-27-16

Interest Checking Account

Checking Balance 9/27/15	F&M Trust Bank checking	9/27/2015	\$7,497.46
York Grotto Coy Cave gating	Check 999	9/29/2015	-\$110.67
Withdrawal for checks		10/6/2015	-\$29.70
Deposit	Lost River Caverns donation	12/31/2015	\$100.00
Interest Payment			\$-
Ending Balance :			\$7457.09

SAVINGS ACCOUNT (CDs):

		Maturity Date	
Certificate of Deposit *75	F&M Trust Bank CD	7/27/2017	\$1,114.91
Certificate of Deposit *29	F&M Trust Bank CD	7/27/2017	\$1,114.91
Certificate of Deposit *65	F&M Trust Bank CD	7/27/2017	\$1,114.91

* \$1.40 Interest credit applied to each 1/26/16

COMBINED TOTAL : **\$10801.82**

Web Page: Dave Fricke reported via email that the PCC Web Site can be found at: <http://www.caves.org/conservancy/pcc/>. The Web Site has been up and running with no issues or problems.

The contacts for the grottos on the Member Grotto web page have been updated with links to the NSS Internal Organization web page for each grotto. As a reminder, all grottos should periodically check their NSS IO page to ensure that the contact information is correct. As always, comments and suggestions on improving the Web Site are welcome.

PCC Breakfast: Pat Minnick stated the PCC plans to host a pancake breakfast at the upcoming 2016 Spring MAR field meet in Shade Gap. All the PCC breakfast equipment is currently stored in Steve Shawver's barn with the exception of the griddle, which is with Joe Schock. Karen and George Bange will provide the paper products (plates, utensils, etc) for the next PCC breakfast. Karen and George also offered to transport the breakfast equipment from Steve Shawver's barn to the Spring field meet site. Additionally, MAKC will be selling coffee, etc on both Saturday and Sunday mornings of the field meet as a fund raiser for MAKC.

PCC Brochure: George Bange stated that he still has a supply of brochures available and was unsure of the last time any were requested. Anyone interested in obtaining brochures should contact George.

Mail: Dean Snyder indicated that the PCC only received bank statements since the last meeting. The PO Box fee was paid by Greater Allentown Grotto (GAG) this year.

Christmas Cards: Karen continues to manage the yearly distribution of Christmas cards to cave landowners and provided the current list:

Peiper Cave (Franklin County), McClure Cave (Snyder County), Onxy Cave (Berks County), Red Church Cave (Berks County), Dreibilbis Cave (Berks County), Indian Cave (Northampton County), Lost River Caverns (Northampton County), Carpenter's Cave (Northampton County), Sharer Cave (Centre County), Deerbone Cave (Centre County), Bear Cave (Westmoreland County), Milroy 2 Cave (Mifflin County), Penn Aqua Cave (Mifflin County), Seawra Cave (Mifflin County), Allensville Cave (Mifflin County), Mt Rock Cave (Mifflin County), Alexander Cavern (Mifflin County), Ruth Cave (Huntingdon County), Nelson's Pit (Huntingdon County), Frustration Pit/Corker Hill (Cumberland County), Hipple Cave (Blair County).

Please contact Karen if you have a landowner you would like added to the Christmas card list. Additionally, Karen reported that she tries to include some cave-related information with the Christmas cards that are sent each year. This year, she sent a letter containing the latest update on White Nose Syndrome and Caving.

T-shirts: No report.

PA Cave Database: Paul Winter, reporting for Tony Canike, indicated that Tony received a data request for the number of caves in specified locations. Tony complied with the request since the data call did not require cave locations, merely a cave count.

Amos Mincin requested that the current designated county stewards please contact him if they are no longer interested in acting as a county steward. Additionally, if someone is interested in acting as a county steward, they should contact Amos Mincin or Tony Canike. It was revealed that the county steward lists contained on the MAR and PCC Web Sites are different. In order to avoid mismatches and duplication of information, Christopher Catherman agreed to remove the list from the MAR Web Site. The county steward list contained on the PCC Web Site should be considered the official and current list. In an effort to maintain the list of county stewards, Mike Spencer moved and John Boswell seconded that the PCC board has the authority to appoint and remove country stewards of the PA cave database. The motion passed.

OLD BUSINESS:

Project and Caves of Interest List:

Dragon Cave (Berks County) – Mike Mostardi reported that he has been in contact with the cave owner. The cave is open and the owner is agreeable with cavers contacting him about access for trips. Mike emphasized that anyone planning a trip should ensure that the owner is notified. Mike can discuss possible gating of the cave if there is a need/interest, otherwise Mike indicated that the cave can be removed from the project list.

Hershey-Coy Cave (Cumberland County) - Randy Hurst indicated that there is additional work to be done on the cave gate. At this point, the costs are unknown but expected to be minimal. The PCC will be provided with additional information if/when financial assistance is requested.

J4 Cave (Centre County) – Paul Winter stated that notification was sent to Graymont indicating that their proposed requirements for access to the cave were not financially feasible. To date, no additional correspondence has been received from Graymont.

Kepler Cave (Centre County) – Paul reported that the house on the property is currently being rented. The house occupants have been made aware that cavers may access the area for caving trips. The renters are not authorized to grant or deny access to the cave. Paul will follow up with the land owners about any plans for sale of the property.

Red Church Cave (Schuylkill County, PA) - Dean Snyder reported that the cave access is open. Dean described the ongoing effort involved with keeping the cave entrance clear as the surrounding ground collapses into the entrance. Dean also emphasized the deteriorating condition of the oil drums used as part of the entrance. These drums should be replaced in the near future. Christopher Catherman suggested providing photos of the entrance to show the current condition.

PCC Tax Exempt Status: John Boswell plans to file for the annual PCC tax exempt status. Filing deadline is May 15 annually.

NEW BUSINESS:

Spring MAR 2016: Franklin County Grotto (FCG) will be hosting the Spring MAR field meet on May 13-15, 2016 at Harper's Park, in Shade Gap, PA. An online registration form is operational and available for electronic payment from the FCG Web Site (http://www.karst.org/fcg/fcg_mar.htm). Additional information and details can be found on the MAR Web Site as they become available.

Fall MAR 2016: Bald Eagle Grotto (BEG) will be hosting the Fall MAR field meet on September 23-25, 2016 at Woodward Campground, PA. The theme of the field meet will be "Glow in the Dark Party". Additional information and details can be found on the MAR Web Site as they become available.

Spring MAR 2017: Philadelphia Grotto is tentatively planning to host the 2017 Spring MAR in celebration of the grotto's 70th Anniversary.

McAlisterville Cave (Juniata County) – Gretchen (Red) Schock suggested the PCC consider a cleanup project for the grounds surrounding McAlisterville cave. The cave entrance is located on a steep embankment and locals are known for dumping trash in the area. Keith Wheeland has agreed to contact the cave owner to ensure he does not have a problem with the proposed project and to determine his feelings on possible publicity with the local newspaper, etc. Amos Mincin volunteered Philadelphia Grotto to assist with the cleanup efforts. Anyone interested in assisting with the arrangements should contact Red, particularly anyone familiar with the McAlisterville area. Additional information about the cleanup effort will be provided as it becomes available.

Elections: The existing Vice President, Treasurer, and Secretary were re-elected to serve another year. Dave Briggs was elected to serve as the new PCC President. The PCC would like to thank Pat Minnick for all his hard work and dedication over the past years as President. Thank you for a job very well done Pat!

Next meeting: The next meeting of the PCC will be held on Sunday, May 15, 2016 at Harper's Park, in Shade Gap, PA. Meeting time 9:30 am.

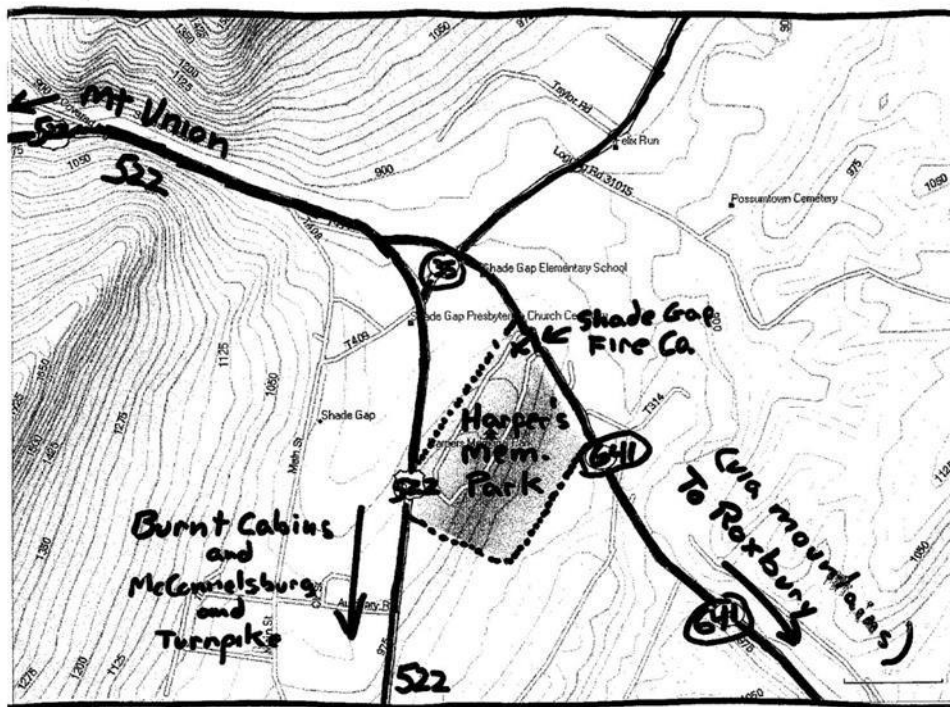
Paul Winter moved and Randy Hurst seconded to adjourn the meeting. The meeting was adjourned at 5:25 pm.

Respectfully submitted,
Gretchen (Red) Schock, Recording Secretary

2016 Spring MAR

Franklin County Grotto will be hosting the 2016 Spring MAR field meet the weekend of May 13-15, 2016 at Harper Park in Shade Gap, PA. More details will be posted on the MAR web site as they become available (<http://caves.org/region/mar/fieldmeets.htm>).

Spring 2016 MAR – Shade Gap, PA



The MAR will be held at Harper Memorial Park, located behind the Shade Gap Fire Dept. The park is accessed only from Route 641 at the Fire Dept. Signs will be posted at the intersections.

Directions to MAR Site

From the South – US 522 north from McConnellsburg and Burnt Cabins to Shade Gap

From the East – PA Turnpike to Willow Hill exit, North on 75 to 641, turn Left (north) on 641 (over one mountain) to Shade Gap. -or- North on 641 from Roxbury (over 2 mountains)

From the North – US 522 south from Mount Union 16 miles through Shirleysburg and Orbisonia to Shade Gap.

From the West – Route 22 to Mount Union, south on 522 to Shade Gap. – or- PA Turnpike to US 522 Fort Littleton exit, then north on 522 to Shade Gap.

Possible GPS Locations - “Harpers Memorial Park” at Shade Gap Fire Department, “11880 Neelyton Rd.”, Shade Gap, PA 17239

40-10'46"N, 077-51'34"W

40.1795278, -77.8594407



SPRING MAR 2016
May 13-15, 2016
Harper's Memorial Park
11885 Neelyton Road, Shade Gap, PA



Registration

Print this form and mail it with your check or money order payable to Franklin County
Grotto Address: FCG, c/o John Boswell, Treasurer, 203 N. Locust Point Rd.
Mechanicsburg, PA 17050

Note: Registration must be postmarked on or before **May 1, 2016** to qualify for pre-registration prices.

On-line pre-registration and payment is available at:

<http://www.karst.org/fcg>

Principal Adult

Registrant: _____ NSS #: _____

Mailing Address: _____
and Street or PO Box City State Zip

Telephone #: _____ Alternate #: _____

Email Address: _____ Primary Grotto Affiliation: _____

Additional Attendees:

Name	Age (Indicate 'adult' if 18+)	Relationship to Principal Registrant

T-Shirts ordered with pre-registration are guaranteed to be available.
Additional T-Shirts will be available on a first-come, first-served basis.

T-Shirt Order (\$15.00 per shirt with pre-registration, \$18.00 at the event)

Size Qty	Size Qty	Size Qty	Size Qty	Size Qty
Small _____	Med _____	Large _____	XLg _____	XXLg _____

	Qty	Postmarked By May 1	Postmarked After May 1	Total
Principal Registrant	_____X	\$25.00	\$30.00	_____
Other Adult	_____X	\$25.00	\$30.00	_____
Children 6 to 12	_____X	\$15.00	\$15.00	_____
Children 5 and under	_____X	FREE	FREE	_____
T-Shirts	_____X	\$15.00	\$18.00	_____
Add'l Guidebooks	_____X	\$ 5.00	\$ 5.00	_____

TOTAL ENCLOSED: _____

EMERGENCY CONTACT NAME AND PHONE #:

NSS MEMBER PRICE LIST

(Effective February 2016)

MID-APPALACHIAN REGION BULLETINS (including reprinted Bulletins)

1-4	Bulletins Caves of Shippensburg Area #1-4	REPRINT	7.00 + postage A
5	Caves of Western PA:	REPRINT 29 caves, 19 maps	8.00 + postage A
6	Caves of S. Cumberland Valley	REPRINT 93 caves 69 maps+6 large maps	17.00 + postage B
7	Caves of Fulton Co., PA	<u>Revised/Corrected</u> 4 caves, 4 maps	5.00 + postage A
8	Caves of Blair Co., PA	REPRINT 89 caves, 40 maps	7.00 + postage A
9	Caves of Huntingdon Co., PA	REPRINT 94 caves, 36 maps	10.00 + postage B
10	Caves of Snyder Co., PA	20 caves, 14 maps	5.00 + postage A
11	Caves of Centre Co., PA	71 caves, 56 maps+1 large map	10.00 + postage B
12	Caves of Mifflin Co., PA	47 caves, 31 maps+5 large maps	10.00 + postage B
13	Caves of Perry Co., PA	13 caves, 6 maps	5.00 + postage A
14	Caves of Bucks Co., PA	REPRINT 24 caves, 6 maps	5.00 + postage A
15	Caves of Lehigh Co., PA	REPRINT 25 caves, 13 maps	6.00 + postage A
16	Caves of Northampton Co., PA	24 caves, 13 maps+1 large map	6.00 + postage A
17	Caves of Northumberland Co., PA	20 caves, 10 maps	5.00 + postage A
18	Caves of Berks Co., PA	64 caves, 32 maps	10.00 + postage B
19	Caves of Bedford Co., PA	54 caves, 33 maps	7.00 + postage A
20	Caves of Westmoreland Co., PA	337 caves, 187 maps/10 large maps	29.50 + postage C
21	Karst of Sinking Valley and Kookan Cave Huntingdon and Blair Counties	103 pages with color photos , 4 fold-out maps, 2 large maps	27.50 + postage B
22	Caves of Middle Susquehanna Valley	140 pages with color photos	16.00 + postage D

U.S. Postage:

A \$2.00 postage first copy; \$0.50 each additional to same address.

B \$2.50 postage first copy; \$0.50 each additional to same address.

C \$3.00 postage for each bulletin #20.

D \$3.50 postage for each bulletin #22

MAR Bulletin Orders: Please make checks payable to MAR

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**NOTE:** All checks must be payable in U.S. dollars on U.S. bank or U.S. money order

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Order from: **Bette White, 4538 Miller Road, Petersburg, PA 16669-2711 U. S. A.**