



BREAKDOWN

Volume 33, Number 1, April 2018

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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State College, PA 16803
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pawwinter@gmail.com

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Bellefonte, PA 16823
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University Park, PA 16802
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Spring 2018 MAR June 22 - 24 Hillside and Bear Cave Natural Area (a MAKC Preserve) Blairsville, PA Hosted by Loyalhanna Grotto



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Mid-Appalachian Region of the National Speleological Society

ANNUAL BUSINESS MEETING MINUTES

February 24, 2018

Officers Present:

Paul Winter, Chairman

JD Lewis, Vice-Chairman

The meeting was called to order by MAR Chair, Paul Winter, February 24, 2018, at the Mount Laurel Church of God, Harrisburg, Pennsylvania.

Introductory Remarks: Paul Winter thanked the organizers for their work setting up the meeting space at the Mount Laurel Church of God and those who travelled to attend the meeting.

Secretary's Report: The secretary's report was read by MAR Vice President JD Lewis. The minutes were accepted with minor changes.



*Bette White giving the MAR treasurer's report
(photo by Karen Bange)*

Treasurer's Report: The treasurer's report was read by MAR Treasurer Elizabeth "Bette" White. Printed copies were distributed. Total income for the year was \$805.98, with \$226.40 in expenditures. Net income for the year was \$579.58.

Vice Chairman's Report: The Vice Chairman, JD Lewis, informed those present that he wished the secretary, Hope Brooks, was present.

Chairman's Report: Paul Winter reported the results of the officer elections. Of five nominees, three accepted nomination: Hope Brooks, JD

Lewis, and Paul Winter were elected to serve another term. The next election will be held at the FALL MAR Field Meet.

MAR Breakdown: Gretchen "Red" Schock gave the MAR Breakdown report. The MAR Breakdown was published and distributed electronically. If you have an article for the publication, or are experiencing any issues receiving the Breakdown, please contact Red directly.

2017 Spring Field Meet: No report from the MAR-NRO field meet.

MAR Web Site and Listserv: George Bange reported that he intends to cease managing the MAR email service in 2018. A new volunteer is needed to keep the list up-to-date and send out official MAR messages using Mail-Chimp. If interested, please contact George Bange or the MAR officers.

MAR Bulletins: Will White questioned if any MAR Bulletins are currently being produced or if anyone has plans to update any of the old bulletins. At this time, most of the known cave bearing counties have a bulletin, though many are now out of date. Paul Winter is working on an update to the Centre County Bulletin (#11). No other bulletins are currently forthcoming to Will's knowledge.

There is resistance to creating new bulletins if they can be used to facilitate cave closure, such as government agencies using them as "gating manuals." Will White indicated that it is quite simple to not update the bulletins, as it takes no work whatsoever.

Pennsylvania Game Commission (PGC): On December 27th, 2017, the Western Pennsylvania Conservancy announced that it has acquired 13 acres of land containing Indian Caverns. The property will be conveyed to the Pennsylvania Fish and Boat Commission after an access bridge is replaced. The cave will be gated and closed for use as bat habitat. The property was purchased with support from the Pennsylvania Game

Commission, The U.S. Fish and Wildlife Service, The Richard King Mellon Foundation, and the Pennsylvania Fish and Boat Commission.

Mid-Atlantic Karst Conservancy (MAKC):

The MAKC has its upcoming members event with a new cave preserve announcement in the works. The event is on August 10-12, 2018 and is free for members. Simply pay your dues and you're welcome to go. Hesston Cave is no longer under lease agreement. MAKC has a solid history of leasing and purchasing caves to conserve the cave and access to the caves.

WNS and Bat Health: WNS has now been detected in 33 states. Bat populations are increasing in some caves.

New Business

2018 Spring Field Meet: Loyalhanna Grotto is hosting the spring MAR at the MAKC Hillside preserve on June 22-24, 2018.

2018 Fall Field Meet: Nittany Grotto is hosting the fall MAR field meet at Rupert Cave Preserve on September 28-30, 2018.



Taking a break between meetings (photo by Karen Bange)

NSS Endowment: Dean Snyder motioned to donate \$500 to the NSS Permanent Endowment Fund. Keith Wheelend motioned to amend the

amount to \$1000. The amendment passed unanimously.

The motion to donate \$1000 to the NSS Permanent Endowment passed.

NCRC OCR Class in Central PA – 6/22/2018:

Pat Minnick gave a brief report on a recent rescue at Wind Cave, in Lancaster County. He also announced an NCRC Orientation to Cave Rescue. This is a weekend class about cave rescue culminating in a mock rescue. Check the NCRC webpage for more information.



Catching up with fellow cavers (photo by Karen Bange)

Respectfully submitted,

Paul Winter,
Chairman of the MAR

Representatives at the MAR meeting:

- Bald Eagle Grotto
- Baltimore Grotto
- Commander Cody Caving Club
- Franklin County Grotto
- Greater Allentown Grotto
- Loyalhanna Grotto
- MAKC
- Nittany Grotto
- Seven Valleys Grotto
- Western Maryland Grotto
- York Grotto



Photo Credit: Ryan Maurer @ Under a Rock Photography 2015

Loyalhanna Grotto Spring MAR 2018

When: June 22-24, 2018

Where: Bear Cave Natural Area (a MAKC Preserve)
Circle Drive
Derry, Pennsylvania 15627

Online Registration:

<https://www.eventbrite.com/e/loyalhanna-grotto-spring-mar-2018-tickets-41618632450>

Event Information: Yinz come on out to the Loyalhanna Grotto's Spring MAR hosted at the Bear Cave Natural Area (a Mid-Atlantic Karst Conservancy Preserve) in Blairsville, PA! Enjoy the wonders of Western Pennsylvania caving, from small crawlways to vertical caving at its finest. Caves in the area include: Bear, Lemonhole, Coon, Barton, Laurel Caverns, and many more. Partake in endless wonders, ranging from rafting and fossil hunting at Ohiopyle, to vista peeping at Cooper's Rock, and even gambling at Lady Luck Casino. You may even be able to see a wild Pittsburgher in nature! Whatever adventure you crave, we've got it! Engorge yourself on some variety of barbequed meat, animal TBD. Exciting events include the "interesting items" raffle. Please consider donating an interesting item of any variety. Hopefully, we'll see you for a weekend of merriment!

A word on the nitty gritty of Spring 2018 MAR. Bear Cave Natural Area is a rustic campground without running water, facilities, or electricity. We will have porta johns and handwashing stations available, but please prepare to bring your own potable water or beverages. Camping is restricted to tent camping, as the roads can sometimes be treacherous for campers and RVs. Higher ground clearance cars are recommended but not required. Lastly, we are soliciting "interesting items" for our door prize raffle. Let your imagination go wild!

Registration fee is \$25. If you only are staying for dinner (no camping), we are charging \$15. If you have financial issues and would still like to attend, please do not hesitate to reach out to a Loyalhanna Grotto officer or member! Refund Policy: Refunds up to 7 days before event



Pennsylvania Cave Conservancy, Inc.

P.O. Box 373, Neffs, PA 18065

Minutes of Regular Meeting – February 24, 2018

The meeting was called to order at 3:35 pm by President David Briggs at the Mt. Laurel Church of God, Harrisburg, PA on Saturday, February 24, 2018.

The following officers were present: **President** Dave Briggs **Vice President** Andy Filer
Secretary Gretchen Schock **Treasurer** John Boswell

Representation was as follows:

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

Secretary Report: Paul Winter moved and Mike Mostardi seconded to accept the minutes from the October 1, 2017 meeting as published in the January 2018 MAR Breakdown. The motion passed.

Treasurer Report: John Boswell provided the PCC account activity since the last meeting. John also reported that he had just received a \$50 donation to PCC from Baltimore Grotto via the PCC mail.

Pennsylvania Cave Conservancy

Financial Summary 10-01-17 through 2-24-18

Interest Checking Account

Checking Balance 10/1/17	F&M Trust Bank checking	10/1/2017	\$7,689.36
Deposit	Interest Credit	9/30/2017	\$0.32
Deposit	Interest Credit	10/31/2017	\$0.32
Deposit	Interest Credit	11/30/2017	\$0.32
Deposit	Interest Credit	12/31/2017	\$0.33
Deposit	Interest Credit	1/31/2018	\$0.32
Ending Balance :			\$7,690.97

SAVINGS ACCOUNT (CDs):

Maturity Date

Certificate of Deposit *75	F&M Trust Bank CD	7/27/2017	\$1,121.92
Certificate of Deposit *29	F&M Trust Bank CD	7/27/2017	\$1,121.92
Certificate of Deposit *65	F&M Trust Bank CD	7/27/2017	\$1,121.92

* \$2.82 Interest credit applied to each 1/26/2018

COMBINED TOTAL :

\$11,056.73

Web Page: Dave Fricke reported that the existing PCC website is up to date and operational. Dave Briggs announced that he hopes to have the new PCC web site up and available soon.

PCC Breakfast: Dave Briggs reported that it was unknown if the PCC would be organizing a pancake breakfast for the Spring 2018 MAR field meet. The PCC will be providing a pancake breakfast during the Fall 2018 MAR field meet at Rupert Cave preserve.

PCC Brochure: George Bange and Dave Briggs have a supply of brochures available. Anyone interested in obtaining brochures should contact George or Dave.

Mail: Dean Snyder reported that the Greater Allentown Grotto (GAG) has paid the \$75 annual fee for the PCC post office box. Dean stated that the only mail received since the last meeting was a donation check from Baltimore Grotto as well as a returned Christmas Card that was sent to a cave landowner.

Christmas Cards: Karen announced that, after 15 years of managing the yearly distribution of Christmas cards to cave landowners, she will no longer be able to perform this task. Kim Kehs kindly volunteered to assume the task of sending the PCC Christmas Cards. Please contact Kim if you know of a landowner you would like added to the PCC Christmas card list. Thank you to Karen for all your years of dedication and service. Thank you to Kim for your willingness to continue this PCC tradition!

T-shirts: The PCC t-shirts are available for purchase on the PCC web site for \$15, which includes shipping and handling.

PA Cave Database: Paul Winter reported that the cave database continues to be maintained. Any updates for the database should be sent to Tony Canike or Paul Winter. Paul requests that all designated county stewards review their respective information on the website and provide any necessary updates.

OLD BUSINESS:

Project and Caves of Interest List:

Cold Air Cave (Monroe County) - Dean Snyder drafted a letter on behalf of the PCC to contact the park authorities regarding a cleanup effort for Cold Air cave and provided it to the PCC President. The letter will be sent from the PCC officers in an attempt to gain permission for a future cleanup event. Dean circulated a photo of the extensive graffiti on the outside of the cave entrance.

Kiehls/Schwalms Caves (Northumberland County) – Andy Filer announced that the PCC has coordinated a cleanup date of Saturday, April 14, 2018 with the landowner of Kiehls Cave. Kiehls Cave is located in close proximity to Schwalms Cave, which is owned by the brother-in-law of the Kiehls Cave landowner. The area around and in the cave is littered with old tires, rusted appliances, and other glass containers/trash. Andy reported that the PCC offered to assist with the cleanup with the understanding that no additional dumping would occur in the future. The landowner has agreed to haul the tires/trash to the waste removal site, since the facility is only open weekdays. Additional information regarding this event will be posted on the PCC website as it becomes available. Come on out and lend a hand to improve another cave!

McAlisterville Cave (Juniata County) – Dave Briggs announced that the cleanup event last year was very successful. He encouraged any caving group visiting the cave to continue to pick up litter as an ongoing effort to maintain the area. This cave will be removed from the project list.

McClure Cave (Snyder County) – Paul Winter stated that landowner relations were good and access to the cave is open. Cavers can contact Paul regarding access for caving trips. Paul reported that they will wait until warmer spring weather before proceeding to paint the cave gate.

Red Church Cave (Schuylkill County, PA) – Dean Snyder circulated photos of the progress of work being accomplished at the cave. Work has begun on a roof to protect the cave entrance area from

falling debris. The work that has already been completed has prevented material from blocking the entrance. Dean donated the costs to have a cave conservation sign made for the cave. PCC has approved to pay \$500 to offset the cost of materials for the project. A huge thank you goes out to Dean Snyder and Ed Kehs for all their hard work, donations, and dedication on this cave improvement project!

PCC Meeting Improvements: Dave Briggs continues to encourage members to share ideas and suggestions on ways to improve our PCC meetings. Dave also expressed his interest in hearing suggestions for fund raising ideas for the PCC. As we become more active with projects and cleanup events, our need for generating funds to pay for these efforts increases. Pat Minnick suggested that a cave gear raffle could be organized, similar to the gun raffles that area hunting clubs/organizations tend to offer. A permit may be required to host such a raffle but Dave Briggs didn't believe the permit would be very expensive.

Pennsylvania Game Commission (PGC): Andy Filer has reached out to Mike Scafani, who is associated with the PGC. Andy learned that the PGC tends to use the construction of cave gates as an avenue to spend their allocated annual funds, with little to no regard for access for caving trips or cavers' interests. Andy intends to research how cave conservancies and game commission relations work in other states in an effort to establish better examples of how things could work.

NEW BUSINESS:

Overcash Caves: Don Arrowood reported that he had been contacted by the landowner of Overcash Caves, which includes five different caves. Don states that access to the caves is open. Contact Don for additional information regarding cave access by the landowner.

Cave Location Verification: Don Arrowood indicated that he has been involved in exploring local areas for known caves as well as potential leads for new caves. Through his efforts, he has already determined that one cave that was listed as a Pennsylvania cave was actually confirmed to be in Maryland.

Spring MAR 2018: Loyalhanna Grotto is planning to host the Spring 2018 Field Meet on June 22-24, 2018 at Hillside and Bear Cave Natural Area (a MAKC Preserve), Blairsville, PA. More details will be posted on the MAR web site as they become available.

Fall MAR 2018: Nittany Grotto is planning to host the Fall 2018 Field Meet in honor of Nittany Grotto's 70th Anniversary. The event will be held on September 28-30, 2018 at Rupert Cave Preserve in McVeytown, PA (Mifflin County). More details will be posted on the MAR web site as they become available.

PCC Picnic: Dave Briggs announced that the PCC plans to host an informal picnic this summer. More details will be provided as they become available.

Elections: Craig Hindman moved and Dave Fricke seconded that the existing PCC officers remain for another year. The motion passed and all current officers were re-elected.

Next meeting: The next meeting of the PCC is to be determined. Additional information will be distributed as it becomes available.

Paul Winter moved and J.D. Lewis seconded to adjourn the meeting. The meeting was adjourned at 4:16 pm.

Respectfully submitted,
Gretchen (Red) Schock, Recording Secretary
MAR Breakdown Volume 33 Number 1 April 2018



Orientation to Cave Rescue

June 22-24, 2018

Franklin County Public Safety Training Center
3075 Molly Pitcher Highway
Chambersburg, Pa 17201

COURSE OVERVIEW

This Orientation to Cave Rescue Course is being presented by the Eastern Region of The National Cave Rescue Commission and the Franklin County Public Safety Training Center. The class will take place in Chambersburg, PA. The Orientation course material is presented for students who typically include cavers, emergency service personnel and rescue management personnel.

The OCR is an introductory level program which consists of instruction of both classroom and field work in all phases of cave rescue. Some of the items covered in this class are the underground environment, extrication techniques, communication systems, medical management, operations, equipment, documentation, and response systems. The course is conducted over a three day period (typically Friday Night, Saturday and Sunday). The first evening consists of classroom studies. The second day consists of classroom studies and hands on exercises. The third day consists of a carefully staged mock exercise that allows the students the opportunity to actually participate in many of the functions that a cave rescue mission would utilize.

This course is physically demanding. Participants must be in good physical health and must sign a liability waiver. Persons under 18 years of age must contact the Regional Coordinator prior to registering for the class.

The Friday and Saturday portion of this class is being held at the Franklin Co. Public Safety Training Center. Students are expected to arrive at 1830HRS on 22 June 2018 to check in, and show that gear is cleaned. Classes will start as soon as all the student's gear is checked. The Saturday and Sunday portion of the class will start at 0800HRS. The Sunday portion of the class will be at a specific cave that will not be announced until Sunday morning.

The Registration Fee for this course is \$60.00 which will include all course materials. Students will be provided with lunch on Saturday. Please bring anything else that is adequate for your needs.

Saturday lunch will be cold cuts and a snack.

Camping is available at the Caledonia State Park and Twin Bridge Campground. There are hotels/motels nearby in Chambersburg for those wishing for that type of convenience. There are links to them on the registration page.

If you have any questions about this course please contact:

Wil Orndorff

Cell: 540-951-8403

Email: dyetracer@gmail.com

REQUIRED EQUIPMENT

Revision03042018r1

- A sturdy helmet with a non-elastic chinstrap equipped with a quick release buckle. Helmet should be UIAA rated. Fire type helmets are made for fires and other types of rescues, and are not acceptable for cave rescues.
- Three independent sources of light each capable of allowing safe exit from a cave. The primary light must be helmet mounted.
- Sturdy boots with lug soles.
- Leather palmed gloves.
- Appropriate rugged clothing for damp, muddy, 50° cave temperature. Layering with polypropylene is advisable.
- A small rugged cave pack suitable for carrying personal supplies underground.
- Small personal first aid kit.
- Three garbage bags.
- Personal food and water for eight hours, to be used during the Mock exercise on Sunday. Food will not be provided in cave on Sunday.
- VERTICAL EQUIPMENT IS NOT REQUIRED FOR THIS COURSE
- ALL GEAR MUST BE CLEANED PRIOR TO CLASS ACCORDING TO THE U.S. FISH & WILDLIFE SERVICE PROCEDURES (SEE TRAINING LINK) <http://www.er-ncrc.org>

Please register by June 12th. Registration after this date will require a \$10.00 late fee.

\$60 acceptable payments are Check/Money order

Registration will be available starting March 15th. You MUST be registered by June 12th and have received an email from the registrar.

For Registration issues contact the Registrar:

Janet Smith

Cell: 540-810-8045

Email: rocksar02@comcast.net

If you have any questions about this course please contact:

Wil Orndorff

Cell: 540-951-8403


Email: dyetracer@gmail.com

For information on the Eastern Region of the National Cave Rescue Commission or cave rescue in general please contact the ER-NCRC Regional Coordinator:

Tony Smith

Cell: 540-828-4091

Email: eastern@ncrc.info

	CAVE RESCUE CLASS REGISTRATION INFORMATION FORM: ER-NCRC-001		Cost: \$60
			DATE: June 22 - 24
			CLASS TYPE: OCR
General Information			
Name:		Birth Date:	
Street:		City:	
State:		Zip Code:	
Phone Number (Home):			
Phone Number (Work):			
Phone Number (Cell):			
Email Address:			
Emergency contact (name, phone number)			
Caving Information			
Cave club affiliations (if any):			
NSS Member (Yes or No):			
NSS Number:			
Medical Training:			
Rescue Training:			
Allergies:			
Pertinent Medical History:			
Saturday lunch will be provided. List any food allergies or if you have dietary needs			
Payment methods: check or money order			
Make check payable to: ERNCRC			
Send check/ Money order and registration form to:			
Janet Smith - Registrar 100 Stephen Circle Bridgewater, VA 22812			
Check/Money order and complete Registration form must be received at above address by June 12th at which time you will receive an email from the registrar stating that you are registered. No refunds after above date.			

2018 Fall MAR

In celebration of their 70th Anniversary, Nittany Grotto plans to host the Fall 2018 Field Meet. The event will be held on September 28-30, 2018 at Rupert Cave Preserve in McVeytown, PA (Mifflin County). More details will be posted on the MAR web site as they become available (<http://caves.org/region/mar/fieldmeets.htm>).

2018 Upcoming Events

'18 Spring VAR Field Meet	April 27-29, 2018
Location: Hungry Mother Lutheran Retreat Center Hungry Mother State Park Marion, VA (Smyth County) Hosted By: Walker Mountain Grotto URL: var.caves.org/	
'18 SERA Cave Carnival	May 3-6, 2018
Locations: Maranatha Camp and Conference Center Near Scottsboro, AL (Jackson County) 67th Annual Hosted By: Birmingham Grotto URL: www.bhamgrotto.org/sera2018	
'18 Spring MAR Field Meet	June 22-24, 2018
Hillside and Bear Cave Natural Area (a MAKC Preserve) Blairsville, PA Hosted By: Loyalhanna Grotto URL: www.caves.org/region/mar/fieldmeets.htm	
'18 Kentucky Speleofest	May 25-28, 2018
Lone Star Preserve Bonnieville, Kentucky (Hart County) 47th Annual Hosted By: Louisville Grotto URL: http://louisville.caves.org/speleofest.shtml	
Butler Cave Conservation Society (BCCS)	May 26-28, 2018
Butler Homestead Burnsville Cove Area, Virginia (Bath County) <i>Homestead and Caving Project Weekend</i> Hosted By: BCCS URL: www.butlercave.org	
'18 Spring NRO Field Meet	June 1-3, 2018
Privacy Campground Williamstown, Massachusetts Hosted By: Northern New Jersey Grotto URL: https://www.facebook.com/events/169018093866560/	
NSS Convention	July 28-August 4, 2018
Helena, Montana 77th Anniversary URL: http://nss2018.caves.org https://www.facebook.com/nss2018	

2018 Upcoming Events (cont'd)

Old Timers Reunion (OTR)	Aug 30-Sept. 3, 2018
OTR Site/Campgrounds Dailey, WV (Randolph County) 69th Annual URL: www.otr.org	
'18 Fall MAR Field Meet	Sept 28-30, 2018
Rupert Cave Preserve McVeytown, PA (Mifflin County) 70th Anniversary Hosted By: Nittany Grotto	
'18 Fall NRO Field Meet	Fall 2018
Locations: TBA Hosted By: TBA	
'18 Fall VAR Field Meet	Fall 2018
Location: TBA Hosted By: TBA URL: var.caves.org	
'18 TAG Fall Cave-In	October 4-8, 2018
TAG Site (Little River), Lookout Mountain Near Trenton, GA (Walker County) 41st Annual Hosted By: Dogwood City Grotto URL: www.tagfallcavein.org	
Butler Cave Conservation Society (BCCS)	October 6, 2018
Butler Homestead Burnsville Cove Area, Virginia (Bath County) Annual Membership Meeting Hosted By: BCCS URL: www.butlercave.org	
'18 Bridge Day	October 20, 2018
New River Gorge Bridge Fayetteville, WV 39th Anniversary URL: www.officialbridgeday.com -or- www.nps.gov/neri/bridgeday.htm -or- www.bridgeday.info/	

NSS MEMBER PRICE LIST

(Effective February 2018)

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	6.00 + 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.**