THE MINERALOGICAL SOCIETY OF NEW SOUTH WALES INC

Website: ***www.minsocnsw.org.au***

Please address all correspondence to :-
The Secretary, 58 Amazon Road, Seven Hills, NSW 2147

NEWSLETTER MAY 2024

The May Meeting will be held in the clubrooms of the Parramatta and Holroyd Lapidary Club At 73 Fullagar Road, Wentworthville, at 7.30 pm on the 3rd of May.

The program will comprise the **Annual Member's Mineral Auction.**

The proceedings will start at the normal time of 7.30pm and will probably last through to between 9.00 and 9.30 pm. At the commencement of the Meeting there may be a few announcements but then the entire evening will be devoted to the Auction. There will be a fifteen-minute break about half-way through the evening. Members with specimens that they wish to auction are invited to select up to about a dozen and provide a list up to Wednesday the 1st of May, although ideally before then. The sale information lists should be sent to Haley Bambridge on *haleybau81@tpg.com.au* so that a combined list of Auction specimens can be compiled and distributed. Vendors will be given lot numbers to add to their specimen labels.

Response from members submitting lists of specimens to auction has been slow but there is still time for members with material that can be sold to select some specimens and send in even a short list, up to Wednesday evening. Items for auction without lists having been provided could also be brought in to the Meeting which if time permits, can be added to the end of the sale list.

Individual specimens or trays of minerals can also be sold by silent auction. Members can bring in a tray to leave for display on a table accompanied by a bid form which will be provided. The bid forms would be checked at the end of the evening with the highest bidders purchasing the tray or specimen/s. There would be no need to notify the Society in advance about trays being brought in for sale as they will not be listed.

Members arriving for the Auction and wishing to bid for any items should acquire a bidding number label at the reception table and write their names with their bidding number on a record sheet. Transactions must be conducted entirely between the vendor and purchaser. The Society does not take any commission on the sales and would not enter into any transaction arrangements. Payments would need to be made by cash or cheque and not by credit card, (unless a vendor is able to supply a card reader).

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FORTHCOMING MEETINGS and PROGRAMS

June 7th : Member's Forum on 'Maintaining and Cataloguing a Collection'.

July 5th: Pseudomorphs from Egypt by Ross Pogson

August 2nd : Society A.G.M. and Memorial Lecture.

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The SOCIETY COMMITTEE

PRESIDENT:	Dieter Mylius	Mobile: 0412 516 193
	E-mail:	*dieterm@internode.on.net*
VICE-PRESIDENT:	John Chapman	Tel: (02) 9808 3481
	E-mail:	*chapmanjr@optusnet.com.au*
SECRETARY:	George Laking	Tel: (02) 9636 7145
		Mobile: 0468 387 899
	E-mail:	*bglaking@tech2u.com.au*
TREASURER:	Graham Ogle	Mobile: 0400 683 574
	E-mail:	*quartzandsirius@hotmail.com*
COMMITTEE MEMBERS:	Haley Bambridge	Mobile: 0413 100 344
	Denis O'Brien	Tel: (02) 6360 3412
	Geoff Parsons	Tel: (02) 9548 3289
	Mark Walters	Mobile: 0421 012 647
	Ed Zbik	Mobile: 0401 538 480

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FIELD TRIP AND TOLLWONG REPORTS

Society members Denis O'Brien in Orange and Steve Sorrell in Ballarat have provided very detailed reports on the two field trips held this year, to Mt Tennyson / Yetholme, to Manuka, (O'Brien), and the on the Tollwong deposit, (Sorrell), which Society members investigated over a few field trips six years ago .in 2016 and 2017. The reports are thorough and lengthy and will be distributed as supplements at intervals over the next month. They will also be entered on to the Society Website.

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The APRIL MEETING

The Meeting was opened by the Vice-President, John Chapman, in the absence of the President who was in Queensland but attending in virtual mode by the Zoom computer facility.

The Society Field Trips Officer, Mark Walters described the forthcoming **Field Trip** to the **Manuka mine** near Cobar in central N.S.W. The dates arranged to enter the mine property were the 20th and 21st of April and a party of up to twenty members would be allowed. At the moment there were only seven members who had applied to join the trip and Mark urged any other members who were interested in attending to contact him to be added to the party. Members attending would need to be SWMS certified.

Mark Walters further announced that he was hoping to organize a Field Trip to New England in September and Society member Brian Holden was investigating the area for suitable fossicking sites.

The Society had been approached by a manager of the **TESEP program** which John Chapman described.

The **Teacher Earth Science Education Programme** needed substantial amounts of specific minerals, ideally three hundred pieces of various common species to put together mineral demonstration kits for schools. The Program was hoping to acquire quantities of calcite, smoky quartz, potch opal, gypsum, feldspar and malachite or azurite. Specimens would need to be crystals although did not need to be in good condition.

John Chapman expected that the forthcoming visit to Manuka would be able to provide an amount of smoky quartz crystals for the TESEP program. He also asked members to look into whether they had boxes of previously-collected minerals which they might be prepared to donate for the Program and to let him know.

[There is extensive information about the Program and associated programs on the TESEP Website]

With no further announcements being made the Vice-President asked the first speaker to deliver his lecture for the evening. Graham Ogle had described a visit that he and Mark Walters had made to the **Bamford mine** in September last year in a lecture to the February Meeting. This evening Mark was to provide a few more details of the trip, notably about other sites in the Bamford area.

Websites describing the area refer to 'The Wolfram, Molybdenite and Bismuth Mines of Bamford, North Queensland'. The area is a few kilometers north of the small village of Petford, (2021 census 22 people), which is about a hundred kilometers SSW from Cairns.

Over the period of their visit last year Graham Ogle and Mark Walters had also looked at a number of other sites in the area and this evening Mark was to provide a description of some of the other locations, mines and minerals found. His lecture was illustrated by a number of colourful images and texts.

The Bamford area had been investigated and described a hundred years ago by Lionel Ball of the Geological Survey of Queensland, Dept. of Mines (1915) and the visitors were able to refer to the Ball report substantially over the period of their visit.

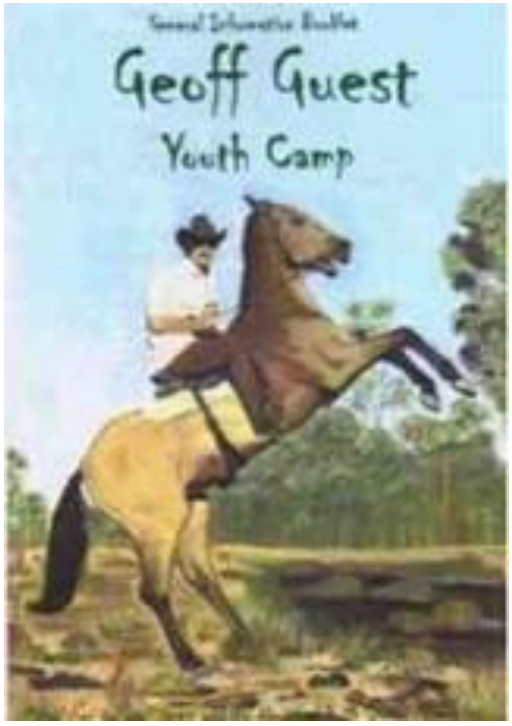
'A Visit to Other Mines in the Bamford Area, North Queensland'

Mark Walters

The countryside. Shady (Dog mine) & Sunny Corners from Bamford Hill ridge.

The Shady Corner (Dog mine); and Sunny Corner dumps were the first areas examined. There were mullock heaps with lots of molybdenite and powellite, good fluorescent material. Workings including the remains of old shed floor remains, shafts and benched areas. Between Shady Corner and Sunny Corner there was the Quartz Pipes / blows area with lots of test pits but no mineralisation and only milky quartz. After looking around Bamford, the visitors decided to visit the Emu Creek area to the south and the tungsten/fluorite Mistake mine. They were fortunate to encounter a local resident Geoff Guest OAM.

Mark Walters, Geoff Guest and Graham Ogle.



Flyer for the Petford Youth Camp

Geoff Guest OAM is a real character with a very colourful and productive history. He was supposedly born in 1926 and is an aboriginal elder and a member of the Stolen Generation. He ran away from the foster family when he was ten years old to work as a rabbit controller and then horse breaker. He joined the U.S. Army when he was 16 and was able to apply his skills in handling horses to take a herd across India and over the Himalayas into China for the Chinese army to use. Since then he has had a large number of jobs, as a diver, timber cutter, crocodile and buffalo shooter, rodeo trick rider and stockman. Given his concern for young people Geoff set up the Petford Youth Camp in the late 1970s which aimed to provide support for youths with substantial educational activities and an emphasis on horse handling.

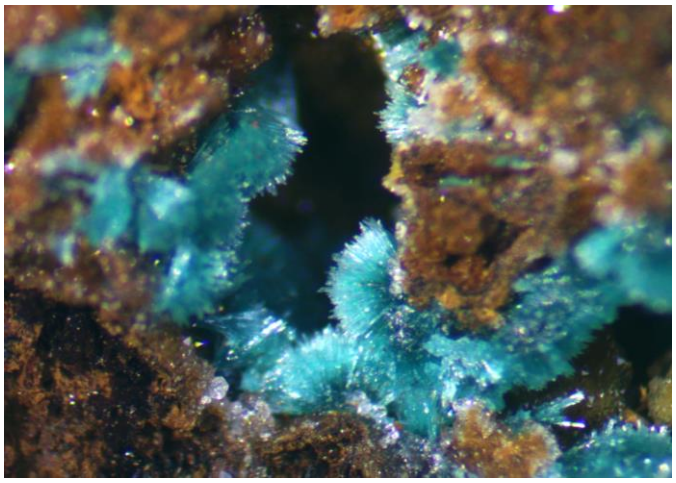
[There are several Websites describing Geoff Guest OAM, his life's history and his work, particularly his setting up the Petford Youth Camp which is still operating].

The Mistake mine, old workings and dumps

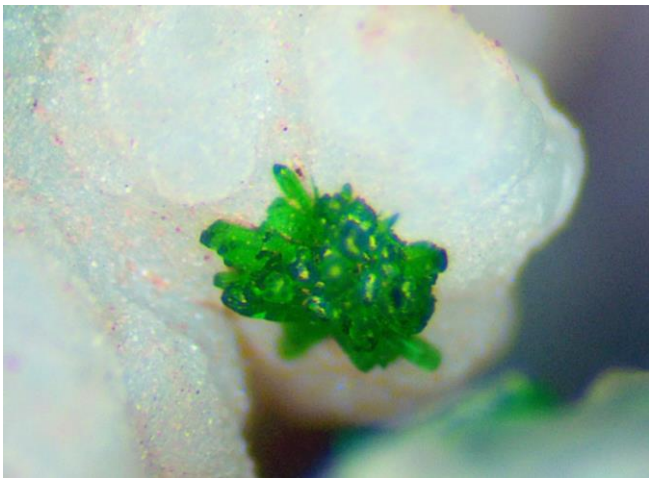
Geoff Guest used to own the Mistake mine land but had returned it to the traditional owners. He was very helpful to the visitors, conducting them over the site. There were a lot of retaining walls around the main workings with overgrown exploration adits nearby and some blue green fluorite mixed with some wolframite but sadly no fluorescence.

After looking around Bamford the visitors moved on to look at the Eclipse mine in the Chillagoe area, about 40 kilometers to the north-west. The mine is a lead, copper and silver deposit with a number of minerals recorded from a two-Bench structure. From the Upper Bench mottramite - vanadate hydroxide $PbCu(VO_4)(OH)$ has been recorded and from the Lower Bench with more silicate the minerals:-

Aurichalcite $(Zn,Cu)_5(CO_3)_2(OH)_6$
Brochantite $Cu_4(SO_4)(OH)_6$
Chrysocolla $Cu_{2-x}Al_x(H_{2-x}Si_2O_5)(OH)_4 \cdot nH_2O$, $x < 1$
Chalcedony SiO_2
Drusy quartz Hemimorphite - $Zn_4(Si_2O_7)(OH)_2 \cdot H_2O$
Malachite $Cu_2(CO_3)(OH)_2$



Aurichalcite (FOV 2mm)



Brochantite cluster (FOV 2mm)

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The second lecture for the evening was given by Arnold van der Heyden.

‘Broken Hill: Minerals Hiding in Plain Sight’

Arnold van der Heyden

Commencing his lecture the speaker first apologised for intending to give a lecture with references to atomic symbols and chemical formulae. He then asked, “Why am I here”? and explained how he had developed an interest in attractive coloured minerals after seeing a book ‘Australian Gemstones in Colour’ published by the Diamond Valley Gem Club in 1969. He had visited Broken Hill for the 1975 Gemboree and made the acquaintance of some key people, notably Dr Bill Birch. Subsequently Arnold van der Heyden upon being employed by the MMM company in Broken Hill had the opportunity to examine minerals and in sending many specimens to the Museum of Victoria helped increase the number of species recorded from the Broken Hill deposit. It was this work which he was to describe during his lecture and also that ongoing mineral identification work was showing that many minerals in private collections or on view in museums were incorrectly labelled, the specimens actually being derivatives of the original and were now ‘hiding in plain sight’ and awaiting correct identification.

The speaker completed his education with a BSc from the University of Melbourne and after a few years in various other jobs he obtained a post with the MMM, (Minerals, Mining & Metallurgy), Company in Broken Hill where he was employed from 1985 to 1991. A text image referred to indicated the work he performed over his time at MMM :-

Daily inspection of faces and blasts	Geological mapping and plotting
Face and blast hole sampling	Ore control and supervision
Compiling data from historical records	Daily/weekly/monthly meetings and reports
Drilling programs	Mineral resource estimates
Mineral collecting	Mine tours for students and collectors.

Over the period of his six years at MMM the speaker sent a total of 358 specimens to Dr Bill Birch to be identified. Dr Birch was also receiving specimens submitted by many other collectors, including MinSoc (Vic, SA, NSW) members.

Arnold van der Heyden referred to the 1982 book – 'Minerals of Broken Hill' when 180 species (of 300 names) are described. By 1999 when the second book was published there were 280 species of 380 names listed. By 2024 according to Mindat there are 330 valid minerals of 392 names recorded with 25 being 'type locality'. The speaker next described some of the early and then later identification methods used by mineralogists. These used to involve such methods as wet chemical analysis and the use of blow pipes which generally required significant specimen mass to work on. Modern methods include SEM, (Scanning Electron Microprobe) and X-ray diffraction (XRD) when much smaller samples can be analysed.

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The chemical development of secondary minerals from the primary ores at Broken Hill was described by the speaker, noting the oxidation of lead sulphide, (galena) into the sulphates and carbonates, anglesite and cerussite. Similarly the oxidation of zinc sulphide, (sphalerite), into the sulphates and carbonates, goslarite and smithsonite

Cerussite – 8.5cm

Anglesite on cerussite – 12.5cm

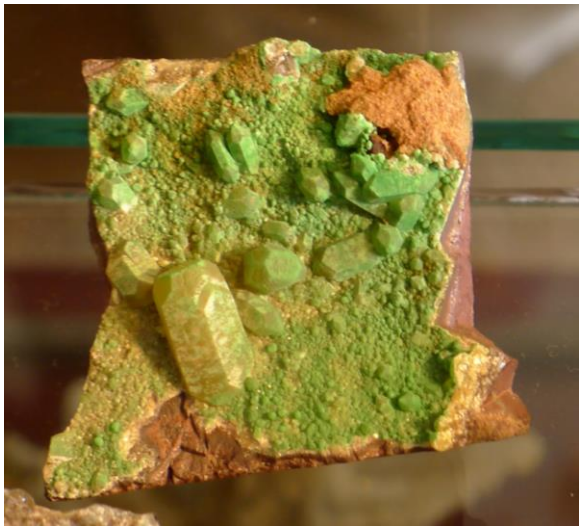
Photos by: Paul Melville

The speaker referred to his looking around the pits and dumps at the mine and noting yellow-green stains here and there. Upon being told that this was all pyromorphite he decided to check on this having noted that much of the material did not look like pyromorphite. Some of it comprised a crust of small sparkly crystals, others were 'MGMs' – 'mossy green minerals'. Further investigation revealed that there were a number of minerals involved and a table was shown indicating the derivatives of pyromorphite found.

Pyromorphite:	$Pb_5(PO_4)_3Cl$	- Lead phosphate chloride
Hinsdalite:	$PbAl_3(PO_4)(SO_4)(OH)_6$	- Lead aluminium phosphate sulphate hydroxide
Plumbogummite:	$PbAl_3(PO_4)(PO_3OH)(OH)_6$	- Lead aluminium phosphate hydroxide
Corkite:	$PbFe_3(PO_4)(SO_4)(OH)_6$	- Lead iron phosphate sulphate hydroxide
Kintoreite:	$PbFe_3(PO_4)(PO_3OH)(OH)_6$	- Lead iron phosphate hydroxide.

Another tabe indicated the derivatives from mimetite, - $Pb_5(AsO_4)_3Cl$ – Lead arsenate chloride

Hidalgoite:	$PbAl_3(AsO_4)(SO_4)(OH)_6$	- Lead aluminium arsenate sulphate hydroxide
Phillipsbornite:	$PbAl_3(AsO_4)(AsO_3OH)(OH)_6$	- Lead aluminium arsenate hydroxide
Beudantite*:	$PbFe_3(AsO_4)(SO_4)(OH)_6$	- Lead iron arsenate sulphate hydroxide
Segnitite:	$PbFe_3(AsO_4)(AsO_3OH)(OH)_6$	- Lead iron arsenate hydroxide



Mimetite with Bayldonite coating $Pb_5(AsO_4)_3Cl$ with $PbCu_3(AsO_4)_2(OH)_2$

The labelling of rhodonite was a notable example of ‘hidden minerals’, much rhodonite in collections and museums not being rhodonite at all. A text quoted from Mindat was displayed : -

> “Some preliminary analyses indicate much material currently called rhodonite is actually vittinkiite, ferrorhodonite or pyroxmangite, and probably should be termed rhodonite group until analysed. Most of these species are slightly darker than true rhodonite but chemical analysis and sometimes XRD is required for identification.”

The variety of manganese oxides was another example of the need for correct identification:-

Coronadite:	$Pb(Mn^{4+}_6Mn^{3+}_2)O_{16}$	Chalcophanite:	$ZnMn^{4+}_3O_7 \cdot 3H_2O$
Cryptomelane:	$K(Mn^{4+}_7Mn^{3+})O_{16}$	Hollandite:	$Ba(Mn^{4+}_6Mn^{3+}_2)O_{16}$
Hausmannite:	$Mn^{2+}Mn^{3+}_2O_4$	Pyrolusite:	$Mn^{4+}O_2$
Ramsdellite:	$Mn^{4+}O_2$	Romancheite:	$(Ba,H_2O)_2(Mn^{4+},Mn^{3+})_5O_{10}$

Arnold van der Heyden compared the mineral assemblage at Broken Hill to that of another notable and similar deposit, that of Tsumeb in Namibia. Tsumeb was operated from 1907 to 1996 and produced 344 valid minerals with 72 being type locality. It produced World-class specimens of cerrusite, azurite, smithsonite and mimetite.

A number of the minerals first found at Tsumeb have also been recorded from Broken Hill:- duftite, tsumebite, arsentsumebite, tsumcorite, and otavite.

Similarly a number of the minerals first found at Broken Hill have also been recorded from Tsumeb:- Kintoreite, segnitite, mawbyite, gartrellite, yancowinnaite and edwardsite.

Arnold van der Heyden reported that a new type mineral found at Broken Hill had been named afrter himself :- Vanderheydenite - a zinc phosphate/sulphate - $Zn_6(PO_4)_2(SO_4)(OH)_4 \cdot 7H_2O$. The mineral had been found and analysed by Peter Elliot and published in 2018. The speaker had been approached in 2014 advising him about the find and the intention to use his name in recognition of his servicies to mineraogy.There had only been a small amount of the specimen which is now in the SA museum in Adelaide.

The current mining operations at Broken Hill were described by reference to a text image.

Perilya – Broken Hill Operations

- Acquired Pasminco operations in June 2002
- North Mine closed September 2008
- Shenzhen Zhongjin Lingnan Nonfemet Co. Ltd
    - February 2009 – 50.1%
    - December 2013 – 100%
- South Mine still operating at ~1.1 Mtpa
- "Based on current extraction rates and the extent of known mineralisation at the Mine Site, it is anticipated that mining operations will cease by 2030."

CBH Resources – Rasp Mine

- Acquired CML7 from Normandy in 2001
- Mine officially opened on July 25, 2012
- Decline from bottom of Kintore open cut
- Mining Western Mineralisation and Main Lode
- Centenary Mineralisation beyond Globe-Vauxhall Shear
- Concentrator designed to process up to 750,000 tonnes per annum
- Surface tailing storage facility in Blackwood's Pit
- Wholly owned subsidiary of Toho Zinc Co since takeover in late 2010
- CBH to progress staged closure of Rasp Mine during 2023 and 2024

In conclusion the speaker insisted that Broken Hill minerals are NOT dull and boring, but they are still expensive. He suggested that more minerals remain to be discovered, including perhaps minrecordite, vittinkiite and hetaerolite. Since access to new material is now limited he advised that members should check their specimens, especially the matrix, look out for anything different, no matter how insignificant.

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FORTHCOMING EVENTS

ILLAWARRA LAPIDARY CLUB Inc –Open Day Sunday 5 May, 9am to 2pm

At 51 Meadow Street, Tarrawanna

'Club members selling Mineral Specimens, Fossils, Lapidary Materials, Jewellery & more.
Morning Tea (proceeds to the Cancer Council's Biggest Morning Tea),
and Sausage Sizzle Lunch available.

You can find us at our website https://www.illawarralapidaryclub.com.au or like and follow us on Facebook: https://www.facebook.com/IllawarraLC'

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The LISMORE GEMFEST 2024 is being held in the Lismore Showgrounds

Sat 18th May: 9am – 5pm. Sun 19th May: 9am – 3pm

Entry: $5 Adults. $1 Children (12 years & under).

Sales: Gem, Mineral, Jewellery & Lapidary dealers, Minerals, fossils, jewellery, rough & cut gemstones, crystals.

Website: https://lismoregemfest.com.au/. Facebook: https://www.facebook.com/LismoreGemfest
Email: lismore.gemfest@gemclublismore.org.au

Mineralogical Records and Rocks & Minerals Magazines for Sale

About two-thirds of the collection of **Mineralogical Records** donated by Noel Kennon and listed in the March Newsletter have been taken by members or for the Society Library. A list of the remaining magazines still for sale is following and also a list of the **Rocks & Minerals** magazines. All for $2 per copy.

The Secretary will bring batches of the magazines to the General Meetings and set out on a table for members to examine and purchase if required or can be contacted to bring in specific magazine among those listed following.

Rocks & Mineral Magazines

Year	Vol	No	Months	Title
2000	75	1	Jan/Feb	Minerals of Brazil
2001	76	4	July/Aug	Vanadinite and Wulfenite. Old Yuma Mine, Arizona
2001	76	5	Sept/Oct	Minerals of the Pikes Peak Batholith
2001	76	6	Nov/Dec	Colorado School of Mines Collection
2002	77	1	Jan/Feb	African Minerals
2002	77	2	March/April	Apophyllite from India
2002	77	3	May/June	Pyromorphite. Guangxi, China
2002	77	4	July/Aug	Colorado Gemstone Localities
2002	77	5	Sept/Oct	Rhodochrosite. Colorado's New State Mineral
2003	78	1	Jan/Feb	Minerals of the Andes
2003	78	2	March/April	Barite from the Cedar Creek Anticline, Glendive, Montana
2003	78	4	July/Aug	Rock Currier Collection on Display
2003	78	6	Nov/Dec	Brazilian Elabaite from the Savinar Collection
2004	79	1	Jan/Feb	Special Issue on Gold
2004	79	2	March/April	Gold from the Yukon Territory
2004	79	3	May/June	Emerald. May's Birthstone
2004	79	4	July/Aug	Zeolites. Special Issue
2004	79	6	Nov/Dec	Fluorite. Northern Pennines, Orefield, England
2005	80	1	Jan/Feb	Minerals of China. Special Issue
2005	80	2	March/April	Calcite from India
2005	80	3	May/June	Beryl, variety Aquamarine. Mt Antero, Colorado
2005	80	4	July/Aug	Heliodor from Tajikistan
2005	80	5	Sept/Oct	Mineral Collecting in Colorado
2005	80	6	Nov/Dec	Tourmaline Update. Mt Mica, Maine
2006	81	1	Jan/Feb	Gems & Minerals of Canada
2006	81	2	March/April	Jeff Scovil. Mineral Photography
2006	81	3	May/June	Minerals from Japan
2006	81	4	July/Aug	New Mineral Finds in Upper Michigan
2006	81	5	Sept/Oct	Colorado Minerals
2006	81	6	Nov/Dec	Minerals. Brandberg, Namibia
2007	82	1	Jan/Feb	Gems & Minerals of Australia. Special Issue
2007	82	2	March/April	Opal from Australia
2007	82	3	May/June	JEFF SCOVILL. Mineral Photography
2007	82	4	July/Aug	Kearsarge Lode. Minerals in Upper Michigan
2007	82	5	Sept/Oct	AMETHYST. Petersen Mtn. Nevada
2007	82	6	Nov/Dec	NEW YORK STATE I Special Issue
2008	83	1	Jan/Feb	Chalcopyrite, Connoisseur's Choice
2008	83	2	March/April	JEFF SCOVILL Mineral Photography

Year	Vol	No	Months	Title
2008	83	3	May/June	NEW YORK STATE II Special Issue
2008	83	5	Sept/Oct	GOLD. Mockingbird Mine, Calif.
2008	83	6	Nov/Dec	AMETHYST Wilkes County Georgia
2009	84	1	Jan/Feb	Mineral Oddities
2009	84	2	March/April	Hilton Mine England
2009	84	3	May/June	New York State III Special Issue
2009	84	4	July/Aug	JEFF SCOVILL Mineral Photography
2009	84	5	Sept/Oct	GOLD! Colorado Quartz Mine, California
2009	84	6	Nov/Dec	The Folch Collection. Barcelona, Spain
2010	85	1	Jan/Feb	GEMS & Gem Minerals
2010	85	2	March/April	JEFF SCOVILL Mineral Photography
2010	85	3	May/June	The Giazotto Collection Florence, Italy
2010	85	4	July/Aug	Flying Jewells A Special Exhibition
2010	85	5	Sept/Oct	Minerals of CREEDE COLORADO
2010	85	6	Nov/Dec	The Fabre Collection. Barcelona, Spain
2011	86	1	Jan/Feb	California Minerals and Oddities
2011	86	3	May/June	Gem Diaspore from Turkey
2011	86	4	July/Aug	The Rudolph Collection. East Coast Show
2011	86	5	Sept/Oct	Russian Museums, People & Publications
2011	86	6	Nov/Dec	Minerals of MOROCCO
2012	87	Sup	Jan/Feb	'Treasures of the Queen'. The BISBEE EXHIBITION
2012	87	1	Jan/Feb	Special ARIZONA ISSUE
2012	87	2	March/April	OLMITE. N'Chwaning Mine II Rep. of South Africa
2012	87	3	May/June	JEFF SCOVILL Mineral Photography
2012	87	4	July/Aug	Colorado & Michigan COPPER
2012	87	5	Sept/Oct	Southern African Minerals
2012	87	6	Nov/Dec	Aquamarine from CALIFORNIA
2013	88	1	Jan/Feb	FLUORITE Special Issue
2013	88	3	May/June	Krugerhaus FREIBERG GERMANY
2013	88	4	July/Aug	TOURMALINE from Malkhan, Russia
2013	88	5	Sept/Oct	AMETHYST Wilkes County Georgia
2013	88	6	Nov/Dec	Hoppel Collection AUCTION
2013	88	Sup	Jan/Feb	CRYSTALLINE TREASURES. The Mineral Heritage of China
2013	88	Sup	May/June	Mineral Collections in ARIZONA. (240 pages)
2014	89	1	Jan/Feb	DIAMOND. Special Issue
2014	89	2	March/April	MIM Museum. Beirut, Lebanon
2014	89	3	May/June	JEFF SCOVILL Mineral Photography
2014	89	4	July/Aug	Leadhillite ARIZONA
2014	89	5	Sept/Oct	The Perot Museum DALLAS, TEXAS
2014	89	6	Nov/Dec	Changsha Show, China
2015	90	1	Jan/Feb	Minerals of W. Europe
2015	90	2	March/April	Madagascar. Mindat.org Conference
2015	90	3	May/June	APATITE. World Review
2015	90	4	July/Aug	Sruce Ridge WASHINGTON
2015	90	5	Sept/Oct	Jacksons Crossroads GEORGIA
2015	90	6	Nov/Dec	Eden/Lowell VERMONT
2016	91	1	Jan/Feb	Shades of Blue Minerals
2016	91	2	March/April	Pegmatites and Tourmaline
2016	91	3	May/June	Blue Fluorite from France
2016	91	4	July/Aug	Minerals of Africa

Mineralogical Record Magazines

Volume	Topic
Vol.08, No.5	Twinning in Minerals
Vol 10, No 3	The Occurrence of Japan-lawTwinning in Quartz
Vol.10, No.5	The Niccioleta and Boccheggiano Pyrite Mines, Tuscany [Italy]
Vol.30, No.2	The Peabody Museum Collection, Yale University
Vol.31, No.1	The Pezinok Antimony Mine, Malé Karpaty Mountains, Slovakia
Vol.31, No.3	Rare Sulfosalts from the Van Silver Mine, British Columbia
Vol.31, No.4	Juanitaite, a New Mineral from Gold Hill, Utah
Vol.31, No.5	Collector Profile: Vladimir Andreevich Pelepenko
Vol.32, No.2	Rudabánya, Hungary
Vol.32, No.5	Via Graveglia
Vol.33, No.2	Cuprian Elbaite from the Batalha Mine, Paraíba, Brazil
Vol.33, No.3	The Barra de Salinas Pegmatites, Minas Gerais, Brazil
Vol.34, No.4	The Pacajake Selenium Mine, Potosí, Bolivia
Vol.34, No.5	Mexico [III]
Vol.35, No.2	Recent Discoveries at the Jeffrey Mine, Asbestos, Quebec
Vol.36, No.2	Criteria for Selecting Crystallized Mineral Specimens for a Display Collection
Vol.36, No.3	Tuperssuatsiaite from the Bortolan quarry, Poços de Caldas, Minas Gerais, Brazil
Vol.37, No.1	The Francon Quarry, Montreal, Quebec, Canada
Vol.37, No.2	Llallagua
Vol.37, No.3	The Sapphire and Spinel Deposit of An Phu, Luc Yen District, Yenbai Province, Vietnam
Vol.37, No.4	Zeolite Occurrences in the Central Metasedimentary Belt of the Grenville Province, Ontario, Quebec and New York State
Vol.37, No.6	Alchuri, Shigar Valley, Northern Areas, Pakistan
Vol.38, No.6	The Minh Tien tourmaline Mine, Luc Yen mining district, Yenbai Province, Vietnam
Vol.39, No.1	The Marc P.Weill Collection of Fine Minerals
Vol.39, No.2	Podlesnoite, a new Mineral species from the Kirovskii Mine, Khibiny, Kola Peninsula, Russia
Vol.39, No.3	American Treasures Issue. The Tucson show
Vol.39, No.6	The Miguel Romero Collection of Fine Mexican Minerals
Vol.40, No.4	WILENSKY FINE MINERALS
Vol.41, No.4	The Blackbird Mine, Lemhi County, Idaho
Vol.42, No.1	Stolzite from the Sainte Lucie mine, Lozere, France
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