

Dave Barthelmy

From: Tony [excalmin@verizon.net]
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To: info@excaliburmineral.com
Subject: New Excalibur List #20603 Ready!

CATALOG 20603, Vol. XXXIII, No. 3 - All specimens subject to prior sale!

ACTINOLITE- Chester, Windsor Co., Vermont
Rich, radiating greenish black sprays of crystalline actinolite largely comprising matrix, these from an old and well-known locality and collected by famous mineralogist E.W. Heinrich. A few samples available, 5-6cm sizes @ 20.00, larger 9-10cm specimens @ 45.00; a few other localities (Washington etc.) also available at similar sizes and prices.

AKROCHORDITE- Langban, Varmland, Sweden
This exceptionally rare mineral occurs here at wonderful, pinkish brown crystals and oddly shaped balls lining exposed seams in matrix, some with highly lustrous, thin transparent brandtite needles and possibly other species as well. Found among the Julius Weber/Lou Perloff collection material we purchased last year, these are probably from the Paul Moore described occurrence of the late 1960's. Four excellent 2cm mounts available @ 125.00 and 150.00 each, depending on coverage.

AUGITE- Unspecified locality labeled as: Tanganyika
These are thick, somewhat equant black augite crystals averaging about 0.8cm long, all free from matrix, collected many years ago before Tanganyika became Tanzania. While the gem areas around Arusha are the likely source, we cannot determine the precise locality in the country for certain. Sharp, clean and lustrous crystals without matrix @ just 10.00 each.

BERYLLONITE- Stoneham, Oxford Co., Maine
A single crystal of transparent to translucent beryllonite without matrix, showing good prismatic form. From an excellent older locality, ex-Cureton, overall size just over 1cm tall @ 125.00. List alternates!

CARBONATITE- 5 mi north of Fort Portal, Uganda
Carbonatites are igneous rocks which consist of 50% or more carbonate mineral. Most are intrusive, forming within dykes, sills, etc. This sample is uncommon in that it formed from surface lava. The specimen consists of a dark gray-brown matrix with numerous veinlets and voids filled with white, powdery, carbonate material. Two adjacent surfaces of the sample have been cut in order to display the white carbonate phase. Extrusive carbonatites are relatively rare, however, the greatest concentrations have been found within Africa. From the petrology collection of the Michigan Technological University, an interesting hand sample which measures 8x8 centimeters from an obscure locality, and priced at just 65.00. Rare petrology, anyone?

CHESNOKOVITE- Kedykverpakhk, Karnasurt, Lovozero, Russia
This NEW SPECIES was found in an ussingite vein, forming colorless to pale brownish aggregates of small, coarsely lamellar crystals. Formula: $\text{Na}_2[\text{SiO}_2(\text{OH})_2] \cdot 8\text{H}_2\text{O}$, orthorhombic; IMA # 2006-007. From the only known occurrence for the mineral, structurally unrelated to any other known species, chesnokovite must be kept tightly wrapped in thin plastic film or enclosed in

hermetically sealed glass vial as it will dehydrate and alter to thermonatrite and opal if left exposed to normal atmospheric humidity! Author's studied material, either as 1cm-1.5cm samples in permanently sealed glass vials @ 125.00, or as tightly wrapped matrix specimens from 2.5cm to 6cm across @ 150.00, 200.00 and 300.00 each. Rare!!!

CHRYSOCOLLA pseudo @ ATACAMITE- La Farola Mine, Tierra Amarilla, Chile
Dark green radiating blades of atacamite to 5mm long nicely spraying flat groups on matrix, most showing associated, bright blue chrysocolla that has replaced earlier needles in a distinctive pseudomorphous habit. An uncommon replacement at this famous locality, specimens ranging from 3.5cm to 8cm long @ 15.00, 30.00 and 45.00 each. Attractive!

COLLINSITE with "QUERCYITE"- Francois Lake, British Columbia, Canada
A rich dark brown mass of radiating collinsite comprising matrix, with the Ca-phosphate "quercyite" and black asphaltum. Classic locality material, relatively pure specimens showing excellent columnar/radiating structure, sizes from about 2.5cm to 5cm across @ 15.00, 30.00 and 45.00 each.

CUPRITE Pseudo @ ANTLERITE- Chuquicamata, Chile
From the largest open pit mine in the world extracting its ore from one of the largest copper deposits ever known is an interesting pseudomorph specimen of cuprite after antlerite. Due to cuprite's position in the copper oxidation cycle there are a number of minerals it often replaces, one of them being antlerite. The cuprite after antlerite occurs as thin, metallic, silver/red seams and veinlets scattered throughout rock matrix. Closer examination of these seams reveals the acicular/fibrous nature of the preexisting antlerite structure in the form of vertical columns. The specimen measures 7x4 centimeters and is a bargain at 45.00 dollars.

ENSTATITE var: HYPERSTHENE- Summit Rock, Klamath Co., Oregon
Exceptionally nice micro crystals of rich brown, glassy hypersthene crystals richly scattered in vuggy andesitic rock matrix, some with ilmenite, hematite, acicular fluorapatite and possibly other micro species. Now regarded as a ferroan enstatite, the name "hypersthene" is now used as a generic mid-member name in the enstatite-ferrosilite series of pyroxenes. Specimens will yield many, many micro's, overall sizes from about 3cm to 7cm across @ 10.00, 20.00, 30.00 and 45.00 each.

ERIONITE- Rome, Malheur Co., Oregon
Once thought to be a moderately rare zeolite, erionite has been found as a widespread constituent of fine grained, sedimentary altered diagenetic tuff, such as these specimens from Rome. Somewhat yellowish to cream colored, light-weight masses of such material, these collected many years ago by famous geologist E.W. Heinrich, offered here as pure chunks from about 4cm to 8cm long @ 25.00, 35.00 and 45.00 each.

FERROAXINITE (ex-Yedlin)- Cornog, Chester Co., Pennsylvania
Mounted, small single crystals of pale clove brown ferroaxinite, collected in 1965 and mounted by Neal Yedlin and provided in his labelled microbox. Although Neal simply called them "axinite", subsequent analytical work showed these to be the Fe-rich member. Neat historic micromounts @ 50.00 each. Only two available!

GOEDKINITE- Palermo Mine, North Groton, New Hampshire
Translucent platy crystals and aggregates of goedkinitite scattered on matrix, some with palermoite, fluorapatite or other phosphates. Some of these were described locally (and inexplicably, I think) as "fern habit" specimens when collected in the 1970's, some noted ex-Segeler and ex-Perloff, and all via

the Julius Weber collection material. We have several excellent micro-boxed and mounted specimens to 1.5cm @ 75.00 each.

GONNARDITE- Gignat, Puy de Dome, France

Brownish lava matrix richly filled with vugs and small voids of white gonnardite very well scattered through out the specimens. The vugs range from about 2mm to nearly 1cm, overall matrix sizes from about 2cm to nearly 7cm across @ 15.00, 25.00, 40.00 and 55.00 each. Excellent older locality, ex-BRGM specimens!

HOLLANDITE- Sitepar Mine, Chhindwara Dist., India

Hollandite, the byproduct of metamorphosed sedimentary manganese deposits, is offered here as a compact cluster of metallic steel-gray prismatic, elongated crystals, similar in appearance to some stibnite specimens. From the Sitepar Mine, a little known mine in the famous Madhya Pradesh state in India. An old and interesting locality specimen measuring 4x4 centimeters @ 40.00.

JEREMEJEVITE- Ameib, Erongo Mts., nr. Usakos, Namibia

From the sensational find, we have a small lot of single crystals and prismatic aggregates off matrix, all showing reasonably good transparency and pale bluish color. A heretofore rarity, gemmy small specimens range from about 0.3cm to 1.2cm tall @ just 30.00, 45.00 and 75.00 each. Limit one per customer.

KAPITSAITE-(Y)- Dara-i-Pioz, Tien-Shan, Tadjikistan

A repeat of a sellout! This rare species (IMA 98-057) occurs as small colorless masses to a millimeter or so sparsely scattered in matrix, easily distinguished by its pale pink fluorescent response to SW UV! Formula:

(Ba,K,Pb,Na)₄(Y,Ca,REE)₂[Si₈B₂(B,Si)₂₀28]F. Type locality and author's material, specimen sizes from about 1.3cm to 2cm @ 95.00, 125.00 and 150.00 each. A rare fluorescent species!

KARPATITE- Tamvatney W-Hg Deposit, W. Chukota, Russia

This interesting species occurs here as bright yellow needle-like crystals and aggregates scattered on matrix, rather nice for the mineral and superior to the California material. These have both micro potential and are brilliantly fluorescent as well, specimens from 1cm to 1.5cm @ 20.00 and 25.00; a few larger matrix specimens from 4cm to 6cm @ 40.00 and 55.00, all depending on coverage. Nice!

LEAKEITE- Norra Karr, Jonkoping, Smaland, Sweden

This complex amphibole occurs here as dark greenish blue, thin flattened and elongated crystalline aggregates lightly scattered in matrix. The list of amphiboles continues to grow as a result of better analytical tools and restudy of old specimens from classic localities, and these thin samples range from 2cm to 4cm long @ 25.00, 40.00 and 60.00 each. Only a few on hand!

MAGHEMITE w/ MAGNETITE- Sawmill Quarry, Haddam, Connecticut

Dull brown masses of maghemite sparsely scattered over pegmatite matrix, associated with black magnetite and occasionally schorl and other species. Collected over 35 years ago, matrix sizes from 2.5cm to 8cm @ 15.00, 25.00 and 45.00 each. Interesting for the locality, but rather ugly, obscure stuff!

MEGACYCLITE- Rasvumchorr, Khibiny, Kola, Russia

A single specimen of this exceptionally rare Na-K silicate, here as transparent aggregates perched on matrix. This 1.4cm sample is perched in a 3cm stoppered glass vial, accompanied by a copy of the senior author's signed label; author's studied material, only one available @ 200.00.

MIMETITE- Grube Michael im Weiler, Lahr, Germany

One of the few mimetites from this locality we have encountered.

Mimetite occurs as yellow/brown micro-crystals and druses coating one side of matrix. The surface is pock-marked and channeled creating a complex and interesting texture. Admittedly not the most attractive mimetite specimen we have seen but unique due to the obscure locality. Two old labels accompany the specimen documenting its history (Ex - Sammlung Wolfgang Jeensch Collection). The specimen measures 5x3cm and is priced at just 25.00.

NAGELSCHMIDTITE- Hatrurim Basin, Negev Desert, Israel
This extremely rare species occurs as microscopic inclusions within an Ti-rich andradite-bearing rock. Each small sample (up to a few millimeters) is mounted and accompanied by four (4) color images using SEM backscattered electron imaging, as well as ordinary and reflected light microscopy that pinpoints the mineral in the sample, and also includes full analytical chemistry of each as well! A strange formula: $\text{Ca}_7(\text{SiO}_4)_3(\text{PO}_4)_2$; only one of these superbly documented samples available @ 350.00, type locality, of course!

PYROPHANITE- Harstigen Mine, Pajsberg, Sweden
Minute, brownish black tabular aggregates of this uncommon mineral sparsely scattered in matrix. From a classic locality, we have just a few old specimens ranging from about 2cm to 5cm across @ 20.00, 35.00 and 55.00 each. List alternates!

RAITE with ZORITE- Lovozero, Kola Peninsula, Russia
This uncommon mineral occurs here as light brown to tan needle-like crystal aggregates scattered in matrix, often associated with pinkish zorite and possibly other minerals. Likely from the (at the time) undisclosed type locality on Mt. Karnasurt, we have a few of these older samples on hand, sizes from about 2cm to nearly 6cm across @ 40.00, 55.00, 75.00 and 95.00 each.

REDDINGITE- Bull Moose Mine, Custer, South Dakota
Thick, massive reddingite comprising matrix, most intergrown with sarcopside and/or tavorite, with a few showing exposed seams of flattened, dark bluish vivianite aggregates as well. Only a few available, sizes from 4cm to 7cm across @ 35.00, 45.00 and 55.00 each.

RIVADAVITE- Tinkalayu Mine, Salta Province, Argentina
White nodules of massive borax with needle-like inclusions of colorless to white rivadavite scattered throughout. Classic, type locality material from this "Salar del Hombre Muerto" locality, specimens from about 1.5cm to 4.5cm @ 20.00, 35.00, 50.00 and 75.00; one exceptional 7cm nodule @ 145.00.

ROMERITE- Příbram, Bohemia, Czech Republic
This weird mineral occurs here as dark purplish blue masses and crusts scattered on matrix, collected many years ago from this classic locality. Specimens range from about 3cm to 7cm across @ 35.00, 55.00 and 85.00 each. Neat stuff!

RUIFRANCOITE- Proberil (Sapucaia) Mine, Galileia, Brazil
This NEW SPECIES, an Fe³⁺ dominant member of the roscherite group, occurs here as minute, thick needles or laths forming reddish brown botryoids scattered on platy white albite, occasionally with meurigite, cyrilovite and possibly other phases. Formula: $\text{Ca}_2[\text{Fe}^{3+}, \text{Mn}, \text{Mg}]_4\text{Be}_4(\text{PO}_4)_6(\text{OH})_4 \cdot 6\text{H}_2\text{O}$, monoclinic, IMA #2005-061. A few specimens available from several millimeters to nearly 5cm, priced according to coverage and size @ 45.00, 75.00, 100.00, 150.00, 200.00 and 300.00 each.

SAMARSKITE- Ross Mine, Yancy Co., North Carolina
Very rich, solid chunks of dark brown samarskite comprising

matrix, some with minor uranium-rich alteration products evident as well. These are quite old, ex-J. Cilen material, with sizes ranging from 1.5cm to nearly 2.5cm @ 15.00, 25.00 and 40.00 each; one exceptional 4cm specimen @ 85.00.

SCAWTITE- Crestmore, Riverside Co., California
This uncommon mineral occurs here as minute tabular aggregates and crystals sparsely scattered in veins with thaumasite in a diopside-wollastonite-spurrite rock matrix. Very old material, specimens averaging about 4cm across @ 30.00 each. One 7x6cm exposed vein sample, ex-Cilen Collection, quite fine, @ 85.00.

SCHOLLHORNITE- Indarch, Shusha, Transcaucasia, Azerbaijan
This extremely rare phase occurs as minute inclusions in the Indarch meteorite which fell on April 7, 1891. Each specimen is comprised of a tiny fragment in a 5mm probe mount, accompanied by two SEM photos and a full quantitative analysis of the schollhornite (an odd Na-Cr-S hydrated phase!), most with pinpointed clinoenstatite, kamacite etc.. Only two available @ 195.00 each.

SCORZALITE- Horrsjoberg, Varmland, Sweden
Dark bluish aggregates of Fe-rich scorzalite well scattered in matrix, associated with pale bluish grey kyanite and occasionally minor lazulite and/or minute yellowish svanbergite. Old locality material, specimens from about 2cm to 6cm across @ just 7.50, 15.00 and 25.00 each.

SEGELERITE- Tip Top Mine, Custer Co., South Dakota
An large hand specimen, ex-J. Cilen collection, showing one surface of micro segelerite crystals scattered on rich robertsite and collinsite matrix, associated with minor mica as well from this famous pegmatite. Only one specimen available, about 8x6cm @ 200.00.

SELLAITE in FLUORITE- Brock's Creek, N.T., Australia
This uncommon magnesium fluorite mineral occurs here as greyish white, massive intergrowths in fine grained purple fluorite comprising matrix. An old and unusual occurrence, specimens from 2.5cm to 7cm across @ just 10.00, 20.00, 35.00 and 50.00 each.

SHANNONITE- Tonopah-Belmont Mine, Maricopa Co., Arizona
Fleshy-tan colored masses of this new PbCO₃ mineral nicely scattered on rock matrix. We offer these IMA-approved and named specimens with the senior author's permission. First found here many years ago and originally submitted from this mine, this has not been designated as the type locality, however. Specimens from 1.5 to 4cm @ 25.00 to 100.00 each.

SIDERONATRITE- Capital Reef, Wayne Co., Utah
Bright yellow masses of sideronatriite richly scattered and covering matrix, here from a rather obscure locality now in a national monument area. Old Cureton material collected many years ago, specimens from about 2cm to 6cm @ 15.00, 25.00 and 40.00 each; a few to 8cm @ 85.00 each.

SMITHITE- Jas Roux, Hautes Alpes, France
This rare silver mineral occurs here as deep red, minute adamantine platy aggregates sparsely scattered in matrix, typically associated with minor realgar, yellowish wakabayashilite and possibly other phases. Rare material from an excellent locality, all ex-BRGM material, specimens average 2.5cm @ 65.00 each.

SOUZALITE- Rapid Creek, Yukon Territory, Canada
This uncommon phosphate occurs here as rich, bluish green fibrous masses scattered on siderite crystals on matrix,

occasionally associated with other phases from this famous locality. Old material collected many years ago, specimens from about 2.5cm to 5cm across @ 45.00, 65.00 and 80.00 each. Rare!

SPERRYLITE- Vermilion Mine, Sudbury, Ontario, Canada
Tiny, bright silvery grey metallic cubic crystals and masses sparsely scattered in rich metallic ore matrix, most showing chalcopyrite, pentlandite etc.. Excellent for the locality, obtained many years ago, specimens from about 2cm to nearly 5cm across @ 45.00, 65.00, 95.00 and 125.00 each, depending on coverage. One Frood Mine sample, about 8x5cm across @ 200.00.

SPODUMENE- Branchville, Connecticut
A very old specimen, likely pre-1900, accompanied by three old labels (Michigan College of Mines and chronologically forward). The specimen is a sharply formed prism section of opaque, beige colored spodumene with no matrix, which appears to be naturally but crudely terminated at one end. No longer collectible from this classic locality, only one sample on hand, about 9x7cm @ 65.00.

SPURRITE- Crestmore Quarry, Riverside Co., California
Large greyish masses of spurrite comprising matrix, often associated with other Ca-silicates from this prolific and well known locality. Specimen sizes will range from 2.5cm to a monster 21x14cm(!) @ 7.50, 15.00, 25.00, 40.00, 65.00, 85.00 and 150.00.

STEWARTITE with LAUEITE- Grube Cornelia, Hagendorf, Bavaria, Germany
This interesting phosphate occurs as minute yellowish needle-like aggregates scattered in and on limonitic vuggy matrix, occasionally associated with laueite and possibly other phosphates. Old material collected many years ago and with moderate micro potential as well, sizes from about 3cm to nearly 9cm @ 15.00, 25.00, 40.00, and 75.00 each.

STILPNOMELANE- Blanchard Mt., Skagit Co., Washington
This rare, iron-rich silicate was discovered here in 1988, producing the world's finest examples of this typically ugly mineral, here as the first find of radiating spherical masses against white quartz. Still not beautiful, but more than just flakes, these interesting specimens range from 3cm to nearly 16cm across @ 15.00, 25.00, 50.00, 85.00 and 150.00 each. Neat!

SULVANITE- nr. Burra Buura, So. Australia, Australia
This rare Cu-V-sulfide mineral occurs as small greyish metallic masses and granules scattered in quartz matrix, most associated with greenish atacamite and/or malachite as well. An uncommon locality for the species, sizes ranging from 1cm to 3cm @ 20.00, 40.00 and 60.00 each.

TENORITE + MALACHITE- Gardner Shaft, Superior+Boston Mine Arizona, Globe
An interesting and attractive copper ore specimen in which classic green malachite is heavily coating one side of matrix. What separates this specimen from most is not the quality of the malachite but the matrix beneath. The matrix is richly imbedded with tenorite, a black copper oxide providing considerable heft to the sample. Mining operations at the Superior and Boston Mine ceased in early 1927 after all of the profitable ore had been extracted; the mine never reopened. An old specimen from the early 1900's and from a prolific mining region. The specimen is accompanied by an old Michigan Technological University label and measures 9x9 centimeters, priced at 55.00.

TITANTARAMELLITE- Rush Creek, Fresno Co., California
Better quality specimens of this unusual barium beryllium silicate. We have titantaramellite as small, dark brown platy crystals and crystal sections scattered through a granular,

largely quartz and sanbornite matrix. Nice for the species, in 2cm to 7cm sizes @ 15.00, 25.00, 40.00 and 65.00.

"URPHOITE"- Koschecka Deposit, Uzbekistan

This mineral was originally determined by electron diffraction methods, published in the Doklady Akademii Nauk (Transactions of the Russian Academy of Sciences), as a "New Phosphate of Four-Valent Uranium", but the senior author died before it was submitted to the IMA! Type material was deposited (formula: $U_4[PO_4](OH \cdot nH_2O)$) but none of the remaining authors have pursued its final submission, and the mineral has languished as a result. Hence, it is not yet a legitimate mineral species even though analyzed, named and published by reputable scientists in a peer-reviewed journal! We have only one small microprobed sample accompanied by an SEM image and X-ray spectra with quantitative chemistry @ 175.00.

WULFENITE- Chapacase Mine, Tocopilla, Chile

Bright red pyramidal crystals of wulfenite forming druses and rich coatings, soem individual crystals to several millimeters tall perched on buff colored matrix. An assortment of unidentified white and yellow crusts are also evident on most of these colorful specimens, overall sizes from about 4cm up to 12cm across @ 20.00, 40.00, 75.00, 125.00 and 350.00, depending on coverage! Great locality material and an unusual habit and color for the species!

ZINCLIPSCOMBITE- Silver Coin Mine, Humboldt Co., Nevada

This NEW SPECIES occurs here as small, bright green botryoidal aggregates scattered in thin seams exposed on matrix. Formula: $ZnFe_3+2(PO_4)_2(OH)_2$ - tetragonal, IMA # 2006-008. Author's studied material from the type locality, most specimens with some micro potential as well, sizes from 1.5cm to 3cm across @ 45.00, 60.00 and 75.00 each, depending on quality. Only five on hand!

BOOK:

MINERALS OF THE CARPATHIANS - Sandor Szakall, Ed

The Carpathian Mountains extend nearly 1500km through the Czech Republic, Hungary, Poland, Romania, Slovakia and the Ukraine, contributing over 1000 different species to the mineralogy of these countries. Covering classic to modern finds, this excellent, hardcover book provides detailed descriptions of the species and localities, including solid geology, mineral museums in the vast region, and a very usefull mineral index and locality index! Over 475 pages and more than 500 photographs with superb color make this a fine reference book for the collector specializing in the minerals in any of these central European countries! Published a few years ago, we have a small supply of these hefty 25x17cm hardcovers in new, English-language shrink-wrapped volumes at the attractive price of just 79.00 each plus 10.00 s/h in the USA. Foreign inquiries welcomed.

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