

ALMANDINE-SPESSARTINE- Garnet Hill, nr Ely, White Pine Co. Nevada

Complex, somewhat distorted but sharp and very lustrous trapezohedral crystals of almandine-spessartine garnet are scattered through quartz-lined vugs in pinkish lithiophysal rhyolite matrix. Each specimen contains one or more red-black opaque crystals varying in size from several mm's to 1cm or more! Attractive material from an old and well known area that first produced specimens well before the 1930's. Our analytical work confirms a roughly 65:35 compositional split between almandine and spessartine. Overall sizes range from about 2cm to nearly 7cm across @ 10.00, 20.00, 35.00, 45.00 and 55.00 each, depending on overall quality and size. Excellent and attractive matrix garnet specimens!

ALUMOPHARMACOSIDERITE- Gold Hill Mine, Tooele Co., Utah

From recently confirmed material, these are extremely small cubic crystals of this moderately rare species lightly scattered in vugs in limonitic matrix, some with olivenite and possibly other species. These require some serious magnification (20x and up) to appreciate, but they are uncommon and from only the second (?) reported North American occurrence. Micro material from 5mm to 2cm @ 20.00, 30.00 and 45.00 each, depending on size, coverage and associations.

BISMUTHINITE- Schneckenstein, Vogtland, Saxony, Germany

A neat miniature specimen from this old, classic East German locality, comprised of tiny, needle-like crystals of bismuthinite scattered in vugs of massive bismuth with small, water-clear quartz crystals as well. Ex-Kay Robertson collection, accompanied by her label, size about 3.5cm across @ 55.00, with excellent micro potential as well!

BISMUTOMICROLITE- Alto Cajazeiras Mine, Pariba, Brazil

This is from a new find near Junco do Serido in which the bismutomicrolite occurs as crude, yellowish brown octahedral crystals without matrix. There are a few discernable faces on most of these, all somewhat rounded, but quite exceptional in size for the species. Individual crystals range from 0.8mm to 1.5cm @ 30.00 and 45.00; a few to nearly 2cm @ 60.00 and 75.00 each.

BURYATITE- Fuka, Bitchu-cho, Okayama Pref., Japan

Minute clusters of pale pink, very tiny hexagonal crystals of this rare mineral scattered on colorless to pale bluish calcite crystals, some of the higher priced samples with dark purplish blue henmilitite as well. A rare member of the ettringite group, and in our opinion, these are far superior to the massive type material offered years ago. Specimens range from about 2.5cm to 3.5cm @ 95.00, 125.00 and 150.00 each, depending on quality and associations.

BUSTAMITE in CALCITE- Franklin, Sussex Co., New Jersey

From old E.W. Heinrich material, we have a small lot of rich bustamite specimens, these labelled from "Franklin Furnace, NJ", in which the bustamite forms pinkish to salmon colored pods and aggregates well scattered in brilliantly fluorescent calcite (SW red) with a smattering of willemite (FL SW-green), black franklinite etc. Specimens are generously sizes from about 5.5cm to nearly 8cm across at 25.00 and 40.00 each. Old classics!

CADMOINDITE- Kudryaviy Volcano, Iturup Island, Russia

A remarkable find of the exceptionally rare and relatively NEW SPECIES, here as minute crystal groups under 1mm mounted on a small boxed adhesive pad. A remarkable volcano mineral with neat chemistry, formula: $CdIn_2S_4$, isometric, IMA #2003-042. Type locality material, only three confirmed samples on hand @ 350.00 each.

CHABAZITE-Ca w/ THOMSONITE-Ca- Ikitsuki-jima Is., Hirado, Nagasaki Japan

Well-shaped, colorless rhombohedral crystals and twine of chabazite-Ca to 4mm well scattered in vugs in basaltic matrix, most with colorless spherulitic crusts of thomsonite-Ca covering the walls of some vugs. A neat combination of analyzed zeolites from a prolific locality, only a few specimens from 2cm to 3.5cm @ just 12.50 and 20.00 each.

CHALCOCITE- Baltic Mine, Houghton Co., Michigan

A small selection of massive chalcocite specimens from this prolific mine, these ex-Michigan Mining College, most quite rich and occasionally intergrown with bornite and possibly other Cu-sulfide minerals. Old material, specimens from about 2cm to 6cm across @ 6.00, 12.50, 25.00 and 40.00 each.

COIRAITTE- Pirquitas Mine, Jujuy Province, Argentina

This relatively NEW SPECIES occurs as dark greyish metallic masses scattered in and comprising matrix, occasionally with minor suredaite or other species. Formula: $(Pb,Sn)_{12.5}Sn_5FeAs_3S_{28}$ - monoclinic. The As-analog of franckeite, IMA #2005-024, type locality material, of course, only a few 1cm specimens on hand @ 275.00 each.

COPPER- Onganja, Namibia

Attractive arborescent groups of native copper, most as somewhat rounded, arborescent groups, some with a pale dusting of greenish malachite. Old material from an interesting locality, neat TN's from 1.5cm to 2.5cm @ 10.00, 17.50 and 25.00 each, depending on quality and size.

COPPER (Spinel Twins)- New Cornelia Mine, Ajo, Pima Co., Arizona

From an old lot discovered in the former Cureton inventory, we have about a dozen neat little native copper specimens from this prolific locality, here all as matrix-free, complex groups of arborescent native copper, most showing the odd, elongated spinel twinning often seen in the mineral. Luster is metallic and these are richly copper-colored, of course, with specimens standing from about 1.2cm to nearly 2.8cm tall, making for excellent thumbnails @ just 8.50, 12.50 and 20.00 each.

COWLESITE- Ikitsuki-jima Is., Hirado, Nagasaki Japan

Small white balls of cowlesite are abundantly scattered in open vugs in basaltic matrix, typically under 1mm but rich and sometimes forming groups and aggregated crusts in 0.5 to 1.5cm vugs. A neat zeolite locality, specimens from about 2.5cm to 3cm across @ just 35.00 each.

DJURLEITE- Green Monster Mine, La Paz Co., Arizona

Massive metallic djurleite largely comprising matrix. Old Cureton stock, originally obtained from Dr. Sidney Williams during his investigation of graemite which he subsequently described. Rich material, specimens from about 2cm to 3.5cm @ 12.50, 20.00 and 35.00 each.

EDOYLERITE- Clear Creek Mine, San Benito Co., California

This rare mercury mineral, an Hg-S-chromate occurs here at the type locality as minute yellowish-orange to slightly brownish crusty aggregates and micro tufts on matrix, most with red cinnabar and possibly other phases. These are from the lower workings at this, the type locality, the first we have secured in more than ten years! These are XRD-confirmed, specimens from about 1.5cm to 2.5cm @ 55.00, 65.00 and 75.00 each.

ERSHOVITE- Tsentral'nyi Mi, Rasvumchorr, Kola, Russia

A rare mineral at this Khibiny massif locality, here quite different than the type material in that it is yellow-orange in color and comprised of easily discernable masses comprised of distorted, radial fibrous spherules in pods averaging 0.5cm across, typically perched in voids among potassic feldspar, aegirine, sodalite etc. Only a few specimens from this occurrence on hand, sizes range from about 3cm to 5cm @ only 75.00, 100.00 and 125.00 each, about half the price of the material from 10 years ago!

FAZIEVITE- Dara-i-Pioz, Tien-Shan, Tajikistan

Another NEW SPECIES from this prolific locality, here as somewhat scaly, pale brownish to clear aggregates scattered on matrix, easily discernable due to its brilliant blue-white fluorescence under SW UV. Formula: $K_2Na(Ca_6Na)Ti_4Li_6Si_{24}O_{66}F_2$, triclinic. IMA # 2006-037, type locality, of course, only three specimens available, average about 1.5cm with good coverage @ 235.00 each.

FERROAXINITE- Oxford Quarry, Warren Co., New Jersey

From a little-known prospect, we have a reasonable lot of small, glassy crystals of ferroaxinite well scattered in exposed seams and vugs in dark greenish matrix, some with minor brassy sulfides evident as well. The color of the ferroaxinite is somewhat purplish to pinkish brown with typical wedge-shaped crystals, all with modest micro potential, too. Unidentified serpentine-group minerals are likely present as well on most of these, overall matrix sizes ranging from about 3cm to large 11cm specimens @ 15.00, 25.00, 45.00 and 60.00 each.

FRANCEVILLITE- Moanana, Gabon

A moderately rich specimen of bright yellow francevillite occurring here as richly scattered crusts and minute tabular aggregates covering matrix, associated with minor orange-tinted curite, minute black uraninite and possibly other phases. An old sample, ex-Scott Williams and F. Cureton, size about 5x5cm @ 245.00.

GILMARITE- El Guanaco Mine, Antofagasta Prov., Chile

This is not a recently approved new mineral, but rather one that has been sitting in our warehouse for some time, "falling through the cracks" as we awaited formal publication. Submitted for approval in 1996 (IMA #1996-017), it was finally published three years later, and it occurs here at the second known locality as dark greenish blue micro balls, tucked into tiny vugs and seams, often with pale greenish conichalcite and possibly other species. Formula: $Cu_3[(OH)_3(AsO_4)]$, triclinic, and a relatively

new member of the augelite-cornetite group. Specimens range from about 2.5cm to nearly 6cm across, priced at just 40.00, 60.00 and 75.00 each, depending on size and coverage.

GMELENITE-Na- Glenarm, County Antrim, No. Ireland, UK

From the type locality for the original gmelinite species, these are marginally Na-dominant members of the gmelinite series, most showing a substantial Ca-content as well. Crystals are small and are typically flattened hexagonal dipyramids or as intergrowths with chabazite, color ranging from cream to pinkish, filling voids and vugs in a Tertiary olivine basalt, occasionally with minor analcime or other zeolites. Good micro potential as well, specimens range from about 2.5cm to nearly 5cm across @ 10.00, 20.00 and 30.00 each.

GOETHITE pseudo @ PYRITE- Diamantina, Minas Gerais, Brazil

From a one-time find, these are rather large octahedrons of pyrite completely replaced by dark brownish to earthy goethite without matrix. The octahedral forms are reasonably well preserved, and these average about 5cm (!) tall from tip to tip at just 40.00 each. Only a few on hand!

GOLDMANITE- Gambatesa Mine, Val Graveglia, Italy

This prolific locality has now disclosed this uncommon garnet, here as small, pistacio green, massive aggregates as thin seams and in small vugs, some associated with minor black hausmannite. Not attractive but indeed unusual, only a few 3cm specimens on hand at just 20.00 each.

GRAFTONITE- Berg, Solleftea, Angermanland, Sweden

Graftonite occurs here in subordinate quantities, typically intergrown in a thick quartz-muscovite-microcline pegmatite matrix. This uncommon phosphate is generally pinkish red to somewhat brownish pink in color, lightly scattered in the pegmatite, and from the first described occurrence of the mineral in Sweden. Specimens are lean but the species is easily seen, matrix sizes ranging from about 3cm to nearly 8cm across @ 15.00, 25.00, 40.00 and 55.00 each.

HILLEBRANDITE- Fuka, Bitchu-cho, Okayama Pref., Japan

Another rarity from Fuka, here as very thin veinlets of somewhat greenish white hillebrandite sparsely scattered through a pale lilac spurrite matrix, occasionally with minor brownish gehlenite as well. Only a very few confirmed samples on hand, most averaging about 5cm across @ 55.00 each. List alternates!

HYDROCARBON variety SHUNGITE- Shunga, Lake Onega Area, Karelia, Russia

An extraordinary find from the classic locality! Long-known from the area, a giant potential exposure of this >98 wt% carbon material in a palaeoproterozoic deposit was recently described by Norwegian and Russian scientists (see Elsevier - Ore Geology Reviews). The material occurs as glassy, dark brown to black, pure masses showing conchoidal fracture and high luster, an exceptionally "clean" unstructured hydrocarbon. We have a few small specimens, sizes ranging from about 1cm to 2.5cm across @ 10.00, 15.00 and 25.00 each.

ILLITE pseudo @ LEUCITE- Kirshehir, Turkey

Earthy white to tan, each sample of illite after leucite is a superb, very sharp replacement of the original tetragonal trisoctahedral form. Pleasing to handle and behold, great locality pieces, sizes from 3.5cm to nearly 6.5cm @ 25.00, 45.00 and 65.00 each.

ILMENITE- Blafjell Min, nr Egersund, Rogaland Norway

Older specimens obtained many years ago, comprised of rich, black solid ilmenite masses from this famous titanium mining area. The largest samples may show some minor vuggy areas for further study, but these are offered essentially as massive and quite pure ilmenite. Specimens range from about 3.5cm to 6cm @ 10.00, 20.00 and 35.00 each, up to extraordinarily heavy monsters of 8cm or more @ 75.00 each.

IRON (NATIVE)- Mt. Ozernaya, Taimyr, Siberia, Russia

These are excellent examples of terrestrial iron, carefully prepared here as polished sections that show the richly distributed metallic native iron in rock found at the locality. No rusty hulks here, the specimens average about 2.5cm wide and range from about 2.5cm to 4.5cm long @ 35.00 and 55.00 each. Very nice examples of this native element!

JOHANNSENITE- Iron Cap Mine, Graham County, Arizona

This Ca-rich clinopyroxene occurs as small, elongated fibrous aggregates and radiating groups richly scattered along exposed

seams in matrix. The needle-like fibers are typically dark green to dark brown in color, generally several millimeters tall, and all specimens will yield interesting micro's as well. Collected about 25 years ago, overall matrix sizes range from about 3cm to nearly 8cm across @ only 10.00, 20.00, 35.00 and 50.00 each.

KELLYITE w/ ALLEGHANYITE- Bald Knob, nr. Sparta, Alleghany Co., North Carolina

Moderately rare, yellow-brown micro platelets of kellyite, variously admixed with alleghanyite, sonolite, and galaxite as typical associations. Author's material and type locality for both kellyite and alleghanyite, lean but quite good for the species, samples measuring 1.5cm to 3.5cm @ 15.00, 25.00, and 40.00 each; a few to 8cm across @ 75.00 each.

LINTISITE (FL)- Palitra Pegmatite, Lovozero, Kola, Russia

This rare species occurs here within the famous Palitra pegmatite (see previous MR article) as colorless to pale blue acicular crystals up to 2mm long, usually forming small clusters in porous pseudomorphs after unspecified minerals, the matrix largely consisting of very dark red mangan-neptunite. Lintisite is brightly fluorescent bluish white under SW UV, and hence, is easily recognized in these specimens. Overall matrix sizes range from about 2.5cm up to 6cm @ 75.00, 125.00 and 165.00 each

MALACHITE on FLUORITE- Cave in Rock Area, Hardin Co., Illinois

An odd combination of two interesting minerals from this prolific area: pale green malachite in minute scaly tufts and aggregates scattered on the surface of cubic, deep purple fluorite, often overlaying yellowish fluorite and occasionally with small calcite crystals as well. The association is rather striking, and the last mine in this prolific area ceased operation more than ten years ago, significantly driving up Illinois fluorite specimen prices as a result. Rarely seen, these old samples make good reference specimens, with sizes ranging from 2cm to 4cm @ 6.00, 10.00 and 15.00, with a few 6cm to 7cm specimens @ 30.00 and 40.00 each. Probably never to be seen again...

MAMMOTHITE- Laurium, Attica Peninsula, Greece

This uncommon mineral occurs here as attractive, bright blue micro balls scattered in vugs in ancient slag matrix, some with associated micro cerussite, phosgenite, paralaurionite etc.. Uncovered in the extensive holdings of the Weber-Perloff collections we purchased, we have only a few of these nicely boxed micromounts @ 85.00 each. List alternates!

MEGACYCLITE- Tsentral'nyi Mi, Rasvumchorr, Kola, Russia

An exceptionally rare mineral, here from the second find for the species at Rasvumchorr Mtn in Khibiny. The mineral occurs here as snow-white aggregates and extremely thin veinlets up to several millimeters long, sparsely scattered in and on dark green aegirine aggregates and crystals frozen in matrix. All specimens with one or more arrows, overall matrix sizes from 1.5cm to nearly 5cm across @ 85.00, 120.00, 165.00 and 200.00 each.

NALIVKINITE- Dara-i-Pioz, Tien-Shan, Tajikistan

This NEW SPECIES occurs as copper-brown flattened aggregates to 6mm well-scattered in matrix. Formula: $\text{Li}_2\text{NaFe}_7\text{Ti}_2\text{Si}_8\text{O}_{26}(\text{OH})_4\text{F}$, triclinic. IMA #2006-038 and from the type locality, a lithium-dominant analog of astrophyllite. Only four specimens available, averaging about 2cm across @ 225.00 each.

NATROJAROSITE+PHOSPHOSIDERITE- nr. Boa Vista, Galileia, M.G., Brazil

These are neat thumbnail specimens showing honey colored micro crystals of natrojarosite sparsely scattered over nicely crystalized pinkish-purple transparent phosphosiderite, some in tiny twinned crystals on matrix. Excellent micro potential on most, specimens from about 2cm to nearly 3cm across @ 25.00 and 35.00 each.

NECHELYUSTOVITE- Kirovskii Mine, Khibiny, Kola, Russia

This NEW SPECIES occurs as curved, pale pinkish brown pearly aggregates, appearing pyrophyllite-like either as small veinlets with natrolite or as pure, monomineralic masses without discernable matrix. The formula is noted as the following: $(\text{Ba},\text{Na})_2(\text{Na},\text{Ti},\text{Mn})_4[(\text{Ti},\text{Nb})_2(\text{OH})_3\text{Si}_4\text{O}_{14}](\text{OH},\text{O},\text{F})_2 \cdot 3\text{H}_2\text{O}$, recently approved, IMA #2006-021. Named for Russian microprobe expert Georgii N. Nechelyustov (b. 1939). Collected here at the type locality in 1995, this is from the original material, only a few specimens available from about 1cm to 1.5cm @ 125.00 (matrix veinlets) to 150.00 (pure, monomineralic) each. Rare stuff!

PUMPELLYITE - (Fe²⁺)- Torras, Castellon, Spain

Excellent micro material comprised of radiating, acicular needle-like crystals of greyish green pumpellyite-(Fe²⁺) scattered in vugs and seams, associated with bladed epidote micro's and blocky pinkish microcline as well. Attractive under the scope, fine association specimens, average about 2.5cm @ just 15.00 each. Limit one per customer, please!

QUARTZ SCEPTER- Spruce Ridge, King Co., Washington

From the Jean Hamel collection, we have a small selection of frosted, sceptered quartz crystals, most as stout singles, occasionally elongated, but all showing a pronounced scepted "head" with little or no matrix. Old material from an excellent locality, specimens average 2.5cm to 3cm and very reasonably priced @ 15.00, 20.00 and 25.00 each, depending on quality.

SAMARSKITE-(Yb)- Little Patsy Peg., Jefferson Co., Colorado

This NEW SPECIES occurs as dark brown, somewhat glassy REE masses scattered in matrix. Approved a few years ago but just recently published, formula: $(Yb,Fe^{3+})(Nb,Ta)_2O_8$, monoclinic, IMA #2004-001. Author's material from the type locality, only a few specimens available about 1cm across @ 55.00 each. Limit one per customer, please.

SANROMANITE- Santa Rosa Mine, Iquique Province, Chile

This NEW SPECIES occurs as minute, radiating needles of transparent to pale yellowish green color with very high luster scattered on matrix, occasionally with trona and other species. Formula: $Na_2CuPb_3[CO_3]_5$, hexagonal, IMA # 2006-009 and just recently published. A new member of the burbankite group; type locality material, of course, priced according to size and coverage, excellent micro material from about 2cm to 4cm across @ just 45.00, 65.00 and 85.00 each.

SEWARDITE- Las Animas Mine, La Mur, Sonora, Mexico

This relatively new mineral has now been confirmed from this old locality where it occurs with carminite, beudantite and possibly other phases. Using both Raman and XRD, the species has been shown to be richly distributed here as small brownish red masses well scattered on matrix. Named for noted mineralogist (and avid collector) Terry Seward (b. 1940), we have a small lot originally collected by Dick Gaines many years ago. IMA #2001-054, with specimens ranging from about 2cm up to 8cm across @ only 25.00, 35.00, 50.00 and 75.00 each. (Others will charge you more, we'll bet!)

SPINEL- Mogok, Mandalay Division, Myanmar (Burma)

Classic, raspberry pink to red spinel crystals perched on white calcite matrix. Quite attractive with good crystal form and transparent to translucent clarity, individual octahedrons ranging from 4mm and up, some better specimens with slightly large crystals or multiples. Becoming very difficult to obtain, these are attractive, representative specimens, overall matrix sizes from about 2.5cm to 3.5cm @ 35.00, 45.00 and 55.00 each.

STUMPFLITE w/ PLATARSITE- Miass River, Ural, Russia

Two exceptionally rare minerals occur here as microscopic inclusions in isoferroplatinum grains! Essentially invisible without a backscattered SEM image, the stumpflite (PtSb) occurs as thin veils and small pods, fully analyzed by quantitative WDS, showing a fairly consistent 8-10% Pd as well, while the platarsite (PtAsS) is similar in appearance but with modest amounts of Ru,Rh and Os evident in each analysis. Superbly documented with two SEM images and full chemistry for both species, we have just a few tiny (<1mm) analyzed grains in polished mounts @ 325.00 each.

TSCHERMIGITE with SULFUR- Libros, Teruel, Spain

Rather ugly and nondescript material, tschermignite occurs here as greyish-white masses and efflorescent crusts with poorly crystalized, bright yellow native sulfur. Old Cureton material likely obtained in the early 1970's (noted by our old Dover, NJ label), specimens range from about 3.5cm to 7cm across @ just 20.00, 30.00 and 45.00 each.

TURQUOISE- Majkojyn, Kazakhstan

From a new find, these are exceptionally attractive nodules of bright blue turquoise, most showing attractive dark brown rims and a variety of spider-webbed color bands and circles of various shades of blue. These have been neatly sliced and are professionally polished nodule halves with rough exteriors on one side and beautiful blue turquoise on the other! From an obscure locality, these colorful nodules range from about 2cm to 4cm across, priced according to size and aesthetics @ 35.00, 45.00, 60.00 and 75.00 each. Very nice!

ZALESIIITE- Gold Hill Mine, Tooele Co., Utah

Although we have offered this relatively new species before, this is a newly confirmed locality for us (see Mineral News, Vol 21 #8), with the mineral occurring as pale yellowish green acicular crystals and sprays perched on a garnet skarn matrix. Good micro material selected from a large lot, with specimen sizes averaging about 1.5-2cm temporarily mounted in clear topped micro boxes at just 10.00, 15.00 and 20.00 each; a few larger matrix specimens typically with attractive botryoidal conicalcalcite in the 5cm-6cm range @ 45.00 each.

NEW BOOKS:

MINERALS FIRST DISCOVERED- IN SWITZERLAND -Philippe Roth

This is a NEW hardcover book presented in the style of the similar "Minerals First Discovered in Canada" and other country-specific works. In a larger format of 8.5 x 11 inches, the 239 page work provides a brief history of mineralogy in Switzerland, geology of the major deposits etc. Each species is given a two page treatment of locality and morphology details, images of the specimens, the people they are named for (when appropriate), locality images etc. followed by an additional chapter of species named for Swiss citizens but discovered elsewhere. Because this work was heavily sponsored, its cost is surprisingly low at just 45.00 plus 8.50 shipping in the USA. We are the exclusive North American distributor!

NEW MINERALS FROM THE FORMER USSR COUNTRIES

This is both an update of Dr. Igor Pekov's original hardcover work "Minerals First Discovered in the Territory of the Former USSR", as well as a special publication (Vol. 11) of Mineralogical Almanac. It sports 112 pages, 51 crystal drawings, 21 SEM images, 66 color images, 214 references etc. in a glossy, 8.5 x 11 inch softcover volume. It describes the 159 new species approved by the IMA since the 1998 publication, giving excellent detailed descriptions of the minerals, discredited names, additions and corrections to the original book, a geographical and chronological treatment of the discoveries, etc.. This handy volume is just 45.00 plus 4.50 shipping in the USA. ***(If you missed the earlier publication, we have a few hardcover copies available @ \$50.00 each)***

NEW MINE MODEL:

MARTINSBURG MINE- Martinsburg, Audrain Co., Missouri

Another of our "mining ephemera" kits, this is a detailed, laser cut wood kit for construction of a 10" x 9" x 5" 1:87 scale model of the Martinsburg #1 Mine, including a hoist house with changing room, headframe and loading house and tailings trestle. The model also includes coal chutes for both railcar and truck loading, and is an attractive and mid-level (in terms of difficulty) craftsman kit, accompanied by nine pages of images and instructions. A neat, small complex for those of you with too much time on your hands, just \$59.95 plus our usual s/h. For a photo, see our website in the mining models section!

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