



Bonhams

Natural History

Los Angeles | May 22, 2019



Natural History

Los Angeles | Wednesday May 22, 2019 at 10am

BONHAMS

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PREVIEW

Saturday, May 18, 12-5pm
Sunday, May 19, 12-5pm
Monday, May 20, 10-5pm
Tuesday, May 21, 10-5pm

SALE NUMBER

25736
Lots 400 - 589

CATALOG

\$35

BIDS

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Please contact client services with any bidding inquiries.

Please see pages 101 to 103 for bidder information including Conditions of Sale, after-sale collection and shipment.

INQUIRIES

Thomas E. Lindgren
Co-consulting Director
323-436-5437
tom.lindgren@bonhams.com

Claudia Florian, G.J.G.
Co-consulting Director
323-436-5437
claudia.florian@bonhams.com

ILLUSTRATIONS

Front cover: Lot 582
Inside front cover: Lot 513
1st session page: Lot 514
Inside back cover: Lot 470
Back cover: Lot 573

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Bonhams

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Order of Sale

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ADDITIONAL IMAGES FOR ALL GROUP LOTS ARE AVAILABLE ON THE WEBSITE

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ERA	PERIOD	EPOCH	MILLION YEARS AGO
CENOZOIC	QUATERNARY	Holocene (Recent)	Present to 0.01
		Pleistocene (Ice Age)	0.01 to 2
	TERTIARY	Pliocene	2 to 5
		Miocene	5 to 25
		Oligocene	25 to 38
		Eocene	38 to 55
		Paleocene	55 to 65
MESOZOIC <i>(Age of the Dinosaur)</i>	CRETACEOUS		65 to 144
	JURASSIC		144 to 213
	TRIASSIC		213 to 248
PALEOZOIC	PERMIAN		248 to 286
	CARBONIFEROUS		286 to 360
	DEVONIAN		360 to 408
	SILURIAN		408 to 438
	ORDOVICIAN		438 to 505
	CAMBRIAN		505 to 590

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Natural History





PROPERTY FROM THE ESTATE OF GERARD L. CAFESJIAN

400^w

FOSSIL PALM FLOWER WITH FISH

Eocene

Green River Formation, Wyoming

Unique in its delicate beauty and unusually large in size, this fossil palm flower is well-preserved, with excellent detail. An ancient herring in the composition evokes an underwater scene of a fish swimming by a water plant. The attractive golden tones of the layer known as the F-2 Horizon of the Green River Formation are evident. *Measuring 62 x 20 x 1 1/4in (157.5 x 50.8x 3.2cm)*

\$4,000 - 6,000



401

401^{wy}

LARGE SPECIMEN OF PINK BRANCH CORAL

Corallium species

Pacific Ocean

Man has had a fascination with coral for centuries, both for use in human adornment but also for its wonderful decorative nature—a point not lost on the Victorians, for instance, who used it along with other Natural History material to enliven their homes.

The overall condition of this large branch of pink coral is remarkable given the fragile nature of the material and difficulties in transport from remote islands. This pink branch coral specimen is in its natural, unpolished state. The colors are, nonetheless, vibrant—graduating from a deep orangy-pink at the base, to lighter pink and creamy white at the tips. Probably retrieved from the sea over fifty years ago, it has been more recently mounted on a custom-fitted carved wooden base to enhance its excellent display qualities. *Height overall: 20 in. Specimen measures 17 x 20 in. (43.2cm x 50.8cm)*

\$1,500 - 2,500

Potential bidders outside of the United States who intend to import this lot are advised that permits may be required for coral. If you are interested in this lot, please contact the Natural History Department before bidding.

402

BEE SWARM IN RARE GREEN AMBER

Dominican Republic

A fully polished emerald green amber nugget displays a colony of stingless bees which were most likely trapped while harvesting tree resin for their nests. Against a dark background, this highly transparent specimen shows as a neon green fluorescence; this stunning color is very unusual in amber. *Weighing approximately 4.9 grams (24.5 grams) and measuring 1 1/4 x 3/4 in (28.25 x 23.75 x 15.33mm)*

\$1,000 - 1,500

To be sold without reserve



402



403



404



405



403^w

FRAMED SEA FAN

Gorgonacea

Phillippines

Sea fans (also known as gorgonians) are colonial soft corals comprised of tiny individual polyps that create their fan-like appearance. The present specimen is nearly the maximum size attainable for sea fans. *Specimen measuring 32in (81.3cm). Frame measuring 40 x 30 x 5in (101.6 x 76.2 x 12.7cm)*

\$200 - 300

To be sold without reserve

Offered in a custom frame.

404

AMBER SPECIMEN WITH HONEYBEE INCLUSION

Dominican Republic

Of free-form outline, the golden-hued amber with a large honeybee inclusion seen in high-relief. *Weighing approximately 28.64 carats (5.8 grams) and measuring 44.2 x 20.16 x 15.17mm*

\$600 - 800

To be sold without reserve

405

TWO AMBER SPECIMENS WITH INSECT INCLUSIONS

near Santiago, Dominican Republic

Oligocene - Miocene

While the arachnid seen here is often called a "Daddy Longlegs", it is not a spider, but an *Opiolonid*. These are most easily distinguished from spiders (*Aranea*) by the fact that the cephalothorax and abdomen have no constriction as seen in spiders, giving them a more globular body shape. Their other common name is Harvestman. They commonly live among plants or on tree trunks, coming out at night to feed. He is seen here trapped in the sticky sap of an *Hymenaea* tree which later became fossilized to result in this interesting amber piece. *Weighing approximately 18.1 carats (3.6 grams) and measuring 26.9 x 26.13 x 8.8mm; the second of cognac color, with a spider inclusion. Weighing 24.33 carats (4.86 grams) (2)*

\$200 - 300

To be sold without reserve



406



406^w

TWO FRAMED SEA FANS

Gorgonacea

Philippines

Sea Fans (also known as gorgonians) are colonial soft corals comprised of tiny individual polyps, which creates their fan-like appearance. The present lot consists of two species, one black and one white. *Frames measuring 40 x 30 x 5in (101.6 x 76.2 x 12.7cm)*

\$200 - 500

To be sold without reserve

Offered in a custom frame.

407

AMBER EGG-FORM CARVING

Baltic Coast

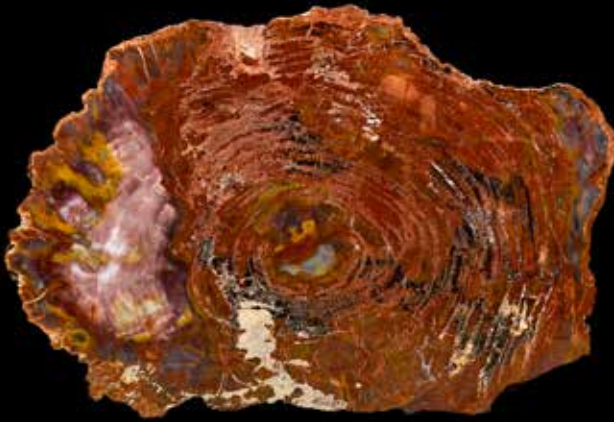
Of rich honey color, with some minor plant debris to the interior, well polished to reveal the high degree of transparency. *Weighing 99.2 grams. Height 68mm*

\$100 - 200

To be sold without reserve



407



408



409



410

PROPERTY OF OTHER OWNERS

408^w

PETRIFIED WOOD

Auracarioxylon arizonicum

Triassic

Chinle Formation, Arizona

A large, well-polished red slab of oval outline, having excellent bark texture to all edges. Measuring 28 x 18 1/2 x 1 1/2 in

\$1,000 - 1,500

To be sold without reserve

409^w

PETRIFIED WOOD SLAB--"NAVAJO WOOD"

Auracarioxylon arizonicum

Triassic

Chinle Formation, Arizona

A fine cross section slab having predominantly cream with pink hues which has caused some collectors in the mineral hobby to dub this as "Navajo wood". Measuring 27 1/2 x 21 x 1 1/2 in

\$1,000 - 1,500

To be sold without reserve

410^w

PETRIFIED WOOD

Auracarioxylon arizonicum

Triassic

Chinle Formation, Arizona

A large, red slab, which is circular in outline and rarer from that aspect. The colors distinguish this piece as being top quality for the region. Measuring 20 1/2 in x 21 x 1 1/2 in

\$1,000 - 1,500

To be sold without reserve



411



412



411^w

ARIZONA "RAINBOW" WOOD

Auracarioxylon arizonicum

Triassic

Chinle Formation, Arizona

A fine cross section slab of petrified wood having vivid red hues intermingled with a variety of other colors which have caused some collectors in the mineral hobby to dub this as "Rainbow Wood". The present specimen has a rich palette of warm browns, red, black and beige. It has been honed to a fine polish for use as a coffee table. Specimens which retain the round outline of the original tree are more rare than those which have been compressed through time and are more oval in shape. *Measuring 34 x 32 1/2 x 1 1/2 in*

\$2,500 - 3,500

To be sold without reserve

412^w

TWO PETRIFIED WOOD STUMPS

Araucaria

Triassic

Madagascar

Distinguished by gorgeous, detailed bark preservation, these prehistoric wood specimens were found on the Northwest coast of Madagascar in the petrified forest dated at 220 million years old. The attractive color is the result of a variety of minerals which replaced the original wood during petrification. Tree rings are visible on the polished faces. (2)

Measuring 28x16in and 30x14in, respectively

\$2,500 - 3,500



413

413^w

RED PETRIFIED WOOD SLAB

Auracarioxylon arizonicum

Triassic

Chinle Formation, Arizona

A large, well-polished red slab of oval outline, having excellent bark texture to all edges. *Measuring 24 x 21 1/2 x 1 1/4 in*

\$1,000 - 1,500

To be sold without reserve



414^w

**LARGE, COLORFUL PETRIFIED WOOD SLICE ON STONE
TABLE BASE**

Auracarioxylon arizonicum

Triassic

Chinle Formation, Arizona

A rainbow of hues, produced by minerals specific to the locality, can be seen in the most beautiful specimens of petrified wood from the famed Chinle Formation. Polished on the face, this cross-sectioned slab of a prehistoric petrified conifer is distinguished by original bark texture on all edges and gorgeous rust reds, burgundy, gray, cream, tan and ochre colors. The brilliant piece is offered on a basalt stone pedestal for use as a table. *Measuring 41 1/4 x 31in*

\$7,500 - 9,000



415^w

LARGE PETRIFIED WOOD SLAB ON STONE TABLE BASE

Auracarioxylon arizonicum

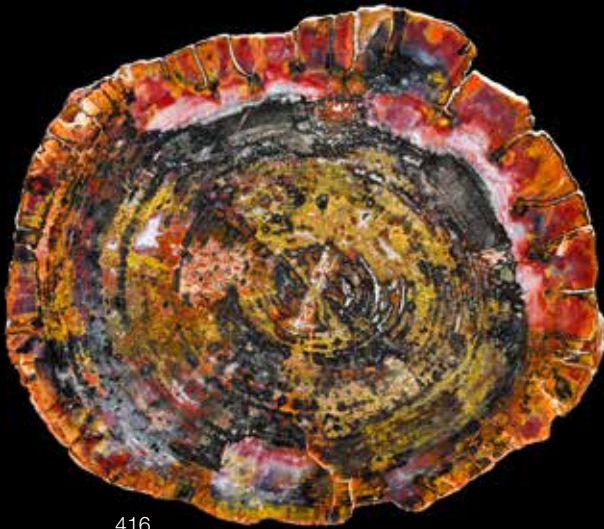
Triassic

Chinle Formation, Arizona

Exotic minerals have produced a rainbow of hues, which are seen in the finest specimens of petrified wood. Polished on the face, this cross-sectioned slab of the petrified conifer, *Auracarioxylon arizonicum*, retains the original desirable bark texture on all edges and gorgeous rust reds, burgundy, gray, cream, tan and ochre colors. The slab is offered on a basalt stone pedestal for use as a table.

Measuring 43 1/2 x 35in

\$7,500 - 9,000



416

416^w

PETRIFIED WOOD SLAB

Auracarioxylon arizonicum

Triassic

Chinle Formation, Arizona

A large, well-polished red with ochre slab of oval outline, having excellent bark texture to all edges. Measuring 24 x 21 x 1 in

\$1,000 - 1,500

To be sold without reserve

417^w

LARGE PETRIFIED WOOD SLAB

Auracarioxylon arizonicum

Triassic

Chinle Formation, Arizona

A large, well-polished petrified wood slab displaying predominantly grey hues having an irregular outline which is evidence of compression during the agatization process, with excellent bark texture to all edges. Measuring 29 x 22 x 1 1/8 in

\$900 - 1,200

To be sold without reserve

418^w

LARGE BLACK AND GREY PETRIFIED WOOD WITH CALCITE INCLUSION

Auracarioxylon arizonicum

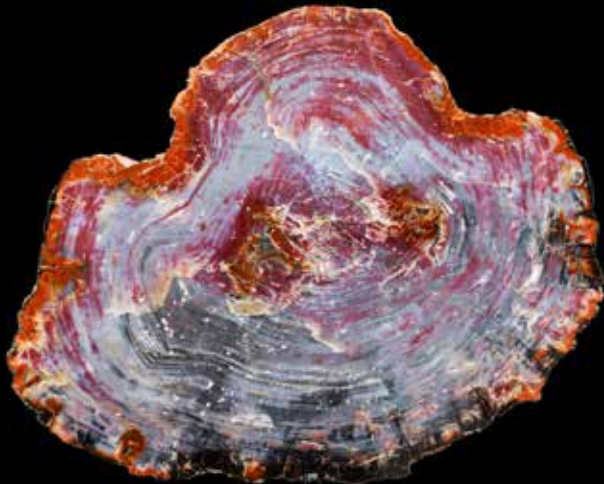
Triassic

Chinle Formation, Arizona

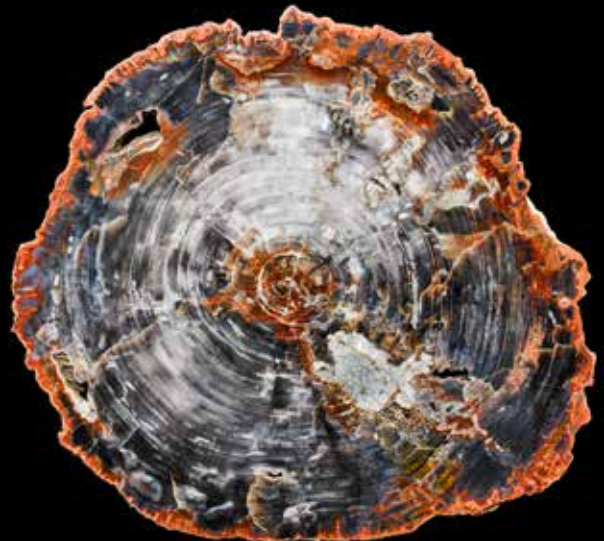
A large, well-polished slab predominating in black and grey hues, having an oval outline. With excellent bark texture to all edges and having an unusual feature of a large white calcite inclusion to the center. Measuring 31 x 28 1/2 x 1 1/4 in

\$1,500 - 2,500

To be sold without reserve



417



418

419^w

LARGE PETRIFIED WOOD LOG ON BASE

Dipterocarpus

Pliocene

Indonesia

Captivating texture is seen in this large petrified wood log displaying gorgeous neutral tones, which are characteristic of fossilized Southeast Asian wood of the Pliocene. During this time, the area was warm and swampy; trees that fell into the tannic acid-rich waters were quickly preserved, resulting in lovely neutral-toned petrified wood such as the present specimen. A custom steel base complements the fossilized wood, providing a sculpture-like presentation. This piece would add a distinctive natural focal point to any interior design scheme.

Measuring 78 x 18in

\$8,000 - 10,000

420^w

POLISHED PALM WOOD STUMP

Palmoxyton

Cretaceous

Louisiana

100 million years ago, a lush tropical forest thrived in what is now known as Louisiana. A few of the forest's palms were fortuitously fossilized after falling into a mineral-rich mud which provided protection from decaying and allowed them to mineralize into a very stable petrified wood. In 1976, petrified palm wood became the State Fossil of Louisiana. The present attractive specimen is polished to augment the characteristic interesting texture of palm wood.

Measuring 14 x 11in

\$800 - 1,200



420



419



421^w

FOSSIL PALM FROND

Sabalites sp.

Eocene

Green River Formation, Wyoming

Fossilized palm fronds are considered rare finds due to the fragility of the cellulose, of which they were composed in life. They are often regarded as the most aesthetically appealing specimens from this prehistoric lake system, which, 51 million years ago, teemed with a wide variety of subtropical species. The Green River Formation is considered by paleontologists to be a "lagerstätte" – a natural accumulation of fossils representing an entire ecosystem - in which a subtropical Eocene environment supported flora and fauna thriving within a system of three prehistoric lakes 51 million years ago. Fortuitously preserved in the deep lakebottom silt, due to lack of oxygen and low temperature, dying animals and plants that were left undisturbed by predators or water current were perfectly preserved. Pressure and heat over millions of years produced the limestone which, when removed by expert laboratory technicians, reveals breathtaking fossil treasures unseen in 51 million years. In the present specimen, the fish are naturally occurring with the beautifully preserved palm frond. Hand-excavated and painstakingly laboratory-prepared. Framed in exotic *Wenge* wood and fitted with a cleat system for ease of mounting on any wall of conventional construction. *Measuring 51 1/4 x 44 1/4in*

\$20,000 - 25,000



422

COPAL AND AMBER

422

LARGE COPAL SPECIMEN WITH TERMITES

Antioquia, Colombia

Copal--fossilized tree sap, or fossil resin--is a precursor to amber. The distinction between copal and amber forms an issue of contention among experts, however. In general, fossil resin is called copal if it is not older than 2 - 20 million years, but, because of the lack of a scaling system for assessing polymerization rates, the nomenclature of resin, copal and amber is inexact. Adding to the difficulties in classifying Colombian copal and amber are the presence of drug cartels in the area, inhibiting more thorough scientific study that might clarify the age of the geologic formations in which these materials are found. The present specimen is a very large one of golden hue, with a naturally pierced hole providing added visual interest as well as plant debris and swarms of termites within. *Weighing approximately 1140.9 grams and measuring 8 1/2 x 6 x 2 1/2 in*

\$2,500 - 3,500

423

RARE BLUE AMBER SPECIMEN

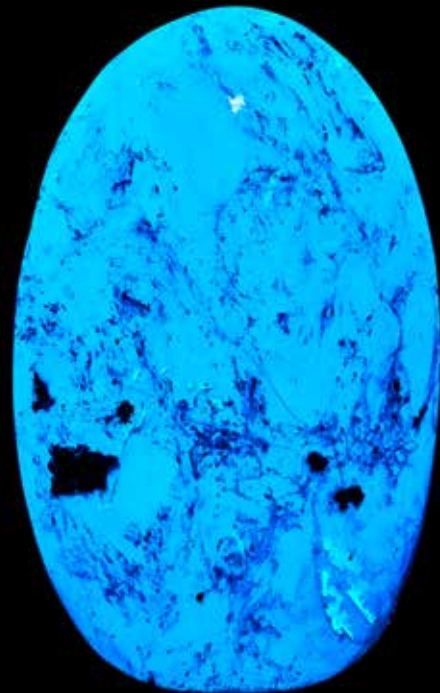
Oligocene-Miocene

25 million years old

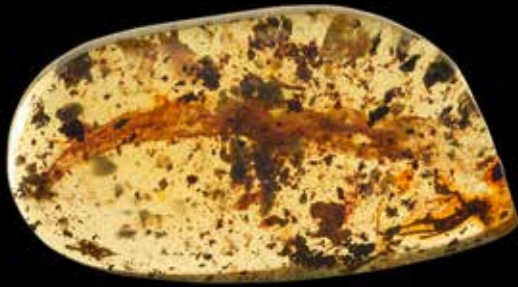
Dominican Republic

Blue amber reportedly is found mostly in Palo Quemado mine south from La Cumbre in the Dominican Republic. The present offering is a large palm sized specimen, which could even be mounted as a large pendant. The specimen displays a bright blue color even when viewed under natural room light. The plant debris seen in the interior is typical for this locality. *Weighing approximately 52.6 grams and measuring 3 1/4 x 2 x 3/4 in*

\$900 - 1,200



423



424

424

LIZARD SKIN AND FOOT IN AMBER

Cretaceous

Myanmar (formerly, Burma)

Arguably the most rare and sought after of animal specimens in amber is the lizard. In the present offering, a 100-million-year-old honey-colored Burmite amber nugget displays the skin of a lizard, and also one foot exhibiting four toes. Offered in an 8 x 6-inch Riker Mount with a detail photo of the lizard skin and foot. *Length of lizard specimen measuring 19mm; Amber nugget measuring 22 x 12mm*

\$1,500 - 1,800



425

425

MATING INSECTS IN AN AMBER CABOCHON

Indeterminate species

Cretaceous

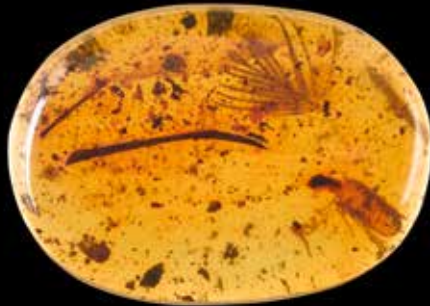
Myanmar (formerly, Burma)

Captured *in flagrante delicto*, two 100-year-old flies or fleas are very clearly displayed in this clear honey-colored cabochon. While mating, the amorous pair was covered over with prehistoric tree sap and preserved for all time. Offered in an 8 x 6-inch Riker Mount with an enlarged photo of the rare mating insects.

Insects measuring approximately 4 mm; Amber cabochon Measuring 13 x 10mm

\$1,000 - 1,500

To be sold without reserve



426

426

MYSTERY FEATHER IN AMBER

Indeterminate species

Cretaceous

Jukawang Valley, Myanmar

Most amber is too young to contain dinosaur feathers, but Burmite, the 100-million-year-old amber found in the Jukawang Valley in northern Burma (Myanmar), is not. In one of the scientific stories of the year several years ago, presumed dinosaur feathers were found in 80-million-year-old Canadian amber. More than 40,000 Canadian amber specimens were examined from a museum collection, which yielded about a dozen amber nuggets containing feathers. The distinction between dinosaurs and early birds is somewhat blurred. Both coelurosaur and tyrannosaur dinosaurs are known to have been feathered, evidenced by the outstanding fossils that have been found in Liaoning, China, dated from 110-130 million years old. Both the diversity and preservation of the possible dinosaur feathers preserved in Burmite exceed that of the Canadian amber. In the present specimen, a partial feather is seen in remarkable detail; the branching symmetric feathers are beautifully preserved with a central rachis. Being symmetrical, these are not flight feathers but rather feathers from the body or arm of a 100-million-year-old dinosaur or the body of a bird. *Feather measuring 6mm; Amber cabochon measuring 18 x 13mm*

\$2,000 - 2,500



427

427

RED LEAF IN AMBER

Indeterminate species

Cretaceous

Myanmar (formerly, Burma)

Rarely is color preservation seen in amber inclusions. Here, a red or red-brown color is visible in a large, nicely detailed leaf, embedded in honey-colored amber. *Leaf specimen measuring 25mm; Amber measuring 43 x 32mm*

\$1,200 - 1,500



428

428
UNUSUAL SNAKEFLY LARVA IN AMBER

Indeterminate species

Cretaceous

Myanmar (formerly, Burma)

Displaying exceptional detail, a snakefly larva is seen in a specimen of clear Burmite amber. Snakefly larvae are predatory, feeding on small insects, eggs and other larvae. *Length of larva specimen measuring approximately 7mm; Amber measuring 36 x 25mm*

\$1,500 - 1,800

429

SCORPIONFLY IN AMBER

Mecoptera

Cretaceous

Myanmar

Displaying outstretched wings, a scorpionfly has been beautifully preserved in Burmite amber. Scorpionflies are so named because the enlarged genitals of the males resemble the stinger of a scorpion. *Measures 20 x 5mm*

\$1,000 - 1,500

430

RARE INSECT IN AMBER

Burmacoccus sp.

Cretaceous

Myanmar

Scale insects are strange looking sap-sucking insects which appear to have many legs; however, the extra legs are, in fact, waxy fingers secreted by special glands in the female which also coat the body of the insect. The waxy secretions resemble the scales of a reptile, hence their popular name. Scale insects are one of the few types of insects that are hermaphrodites. *Insect is 4.5mm long in amber measuring 18 x 12 x 7mm*

\$1,500 - 1,800

431

TARANTULA IN BURMITE AMBER

Tarantula Dipluridae

Cretaceous

Myanmar (formerly, Burma)

Accompanied by a beetle and a centipede, a fascinating tarantula is seen in a honey-colored amber nugget. *Tarantula Dipluridae* are known as Funnel-Web Tarantulas. They possess large and powerful venomous fangs, which move up and down in a stabbing motion. The venom gland is contained within the fangs. *Length of tarantula measuring 5.5mm; Amber measuring 25 x 17 x 9mm*

\$1,500 - 2,000



429



430



431



432

432
SUPERB SCORPION IN AMBER

Indeterminate species
Cretaceous
Myanmar

An exceptionally well preserved scorpion, with an assortment of insects, in a clear amber nugget. Many of the insects found in Burmite amber are extinct species that are similar, but slightly different than, modern insect species. *Length of scorpion measuring approximately 6mm; Amber measuring 20 x 17mm*

\$2,000 - 2,500



433

433
A WASP, MILLIPEDE AND SPIDER IN BURMITE AMBER

Indeterminate species
Cretaceous
Myanmar (formerly, Burma)

Three fascinating animals are seen in this clear honey colored amber specimen: a wasp, a millipede and a spider. Preserved insects in amber are a rarity, but three specimens preserved in such close proximity is quite a phenomenon. *Measuring: Wasp 5mm; Millipede 4mm; Spider 1.5mm*

\$1,500 - 2,000



434

434
CARNIVOROUS CRICKET IN AMBER

Indeterminate species
Cretaceous
Myanmar (formerly, Burma)

Entombed in a clear, golden amber cabochon is a carnivorous cricket, an extinct type of cricket which preyed on other insects. *Cricket measuring approximately 6 to 7mm; Amber cabochon measuring 15 x 12mm*

\$1,000 - 1,500



435

435
PSEUDOSCORPION IN BURMITE AMBER

Indeterminate species
Cretaceous

Myanmar (formerly, Burma)

Pseudoscorpions are actually arachnids with pedipalps (pincers) resembling the pincers of scorpions. Pseudoscorpions do not have stingers, but they do possess a venom gland used to capture and immobilize insects. *Pseudoscorpion measuring approximately 5mm; Amber specimen measuring 16 x 12mm*

\$1,000 - 1,500

436

TWO RARE FLOWERS IN AMBER

Indeterminate species
Cretaceous

Myanmar (formerly, Burma)

This rare flower belongs to one of the earliest flower species to appear on Earth. The first flowers made their appearance about 130 million years ago during the Early Cretaceous. *Length of flower measuring 4mm; Amber measuring 10 x 7mm*

\$1,000 - 1,500

To be sold without reserve

437

AMBER SPECIMEN WITH INSECT INCLUSIONS

Oligocene
Chiapas, Mexico

A large hand-sized specimen of golden-hued amber having numerous unidentified insect inclusions. *Weighing approximately 142 grams and measuring 5 x 3 1/4 x 1in*

\$600 - 800

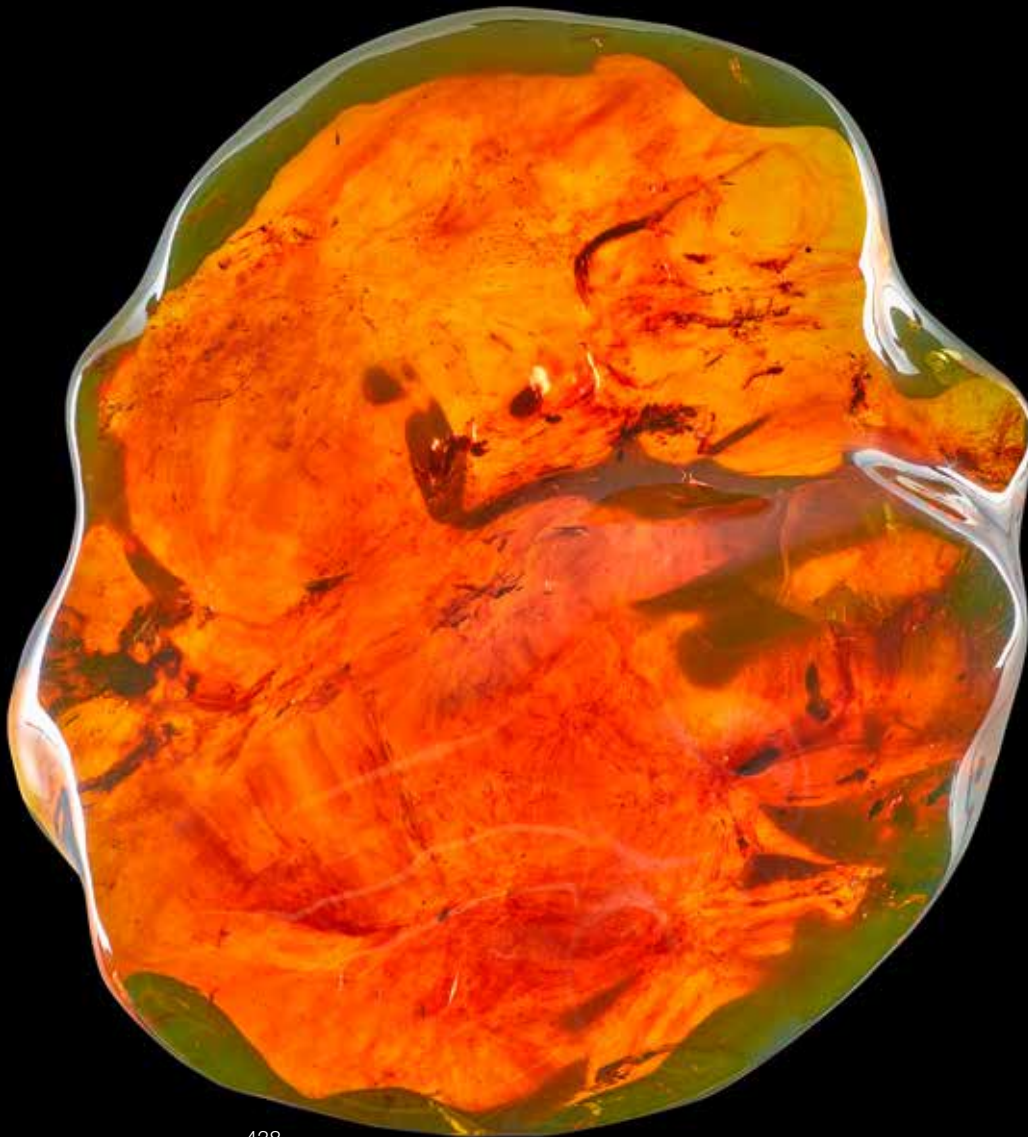
To be sold without reserve



436



437



438

438

LARGE AND IMPORTANT GREEN AMBER SPECIMEN

Oligocene

Chiapas, Mexico

This huge nugget is gem quality due to its high degree of transparency. The body color is cognac with transmitted light and green under regular room light with a very strong blue fluorescence under UV light. Weighing approximately 3087 carats (617.5 grams) and measuring 6 1/2 x 5 x 2 1/2 in

\$6,000 - 8,000



439

439

BLUE AMBER SPECIMEN

Dominican Republic

With a polished faced and natural rind of the specimen to the reverse side with plant debris visible to the interior and a blue fluorescence.

Weighing approximately 35.6 grams and measuring 49.82 x 52.97 x 29.86mm

\$400 - 600



440

440

AMBER NUGGET ON WOOD STAND

Baltic Coast

A larger cabinet-sized specimen, having a with polished face and a domed polished to the reverse side with a deep carmel color and some transparency at the edges. *Weighing approximately 217.4 grams and measuring 5 x 3 x 1 1/2 in*

\$500 - 700

To be sold without reserve



441

441

LARGE COGNAC AMBER SPECIMEN

Oligocene

Chiapas, Mexico

A rich cognac-colored specimen having green overtones and strong blue fluorescence, with moderate transparency at the edges. *Weighing approximately 516.0 grams and measuring 6 1/4 x 4 1/2 x 3 in*

\$1,500 - 2,500



442

442

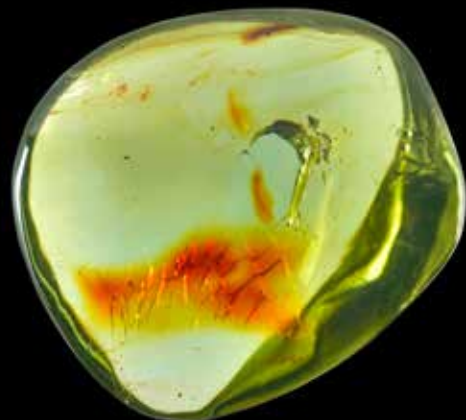
AMBER SPECIMEN

Baltic Coast

A large, palm-sized specimen capable of standing on its own, having small plant debris and two or three small insects apparent. *Weighing approximately 111.0 grams and measuring 4 x 2 1/4 x 1 in*

\$300 - 500

To be sold without reserve



443

443

POLISHED GREEN AMBER NUGGET

Cretaceous

Ethiopia

Gem-quality with a high degree of transparency, this is a polished, natural green amber specimen from the rare locality of Ethiopia. Ethiopian Amber is prized due to the rich green colors it produces. Scientists are still in the process of studying this type of Amber to try and determine which plant is the source and what could cause this Amber which is so different in color from others. *Weighing approximately 43.15 carats (8.64 grams) and measuring 36.08 x 32.8 x 14.92mm*

\$300 - 400



444

444

AMBER CABOCHON WITH INSECT INCLUSIONS WITH A WING

Dominican Republic

A large domed cabochon of amber display a pair of insects *inflagante delicto* as well as a large pair of insect wings (without body). Weighing approximately 17.7 grams and measuring 37.59 x 21.11mm

\$3,000 - 5,000



445

445

SPIDER IN AMBER

Oligocene

Chiapas, Mexico

Featuring a large spider inclusion in an otherwise clear specimen.

Weighing approximately 43.5 carats (8.7 grams) and measuring 55.63 x 26.98 x 10.82mm

\$600 - 800



446

446

AMBER WITH INSECT INCLUSION

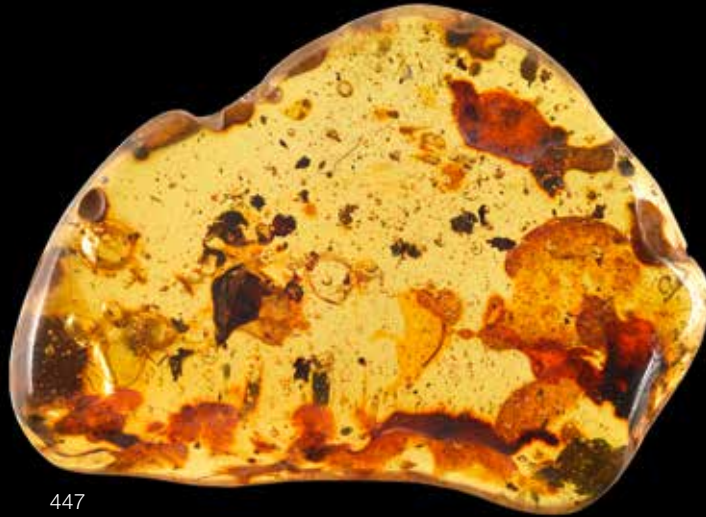
Oligocene

Chiapas, Mexico

Featuring an ant inclusion which is easily visible and stands out in contrast to the amber.

Weighing approximately 6.81 carats (1.36 grams) and measuring 33.14 x 12.2 x 6.2mm

\$400 - 600



447

447

AMBER WITH RARE ENHYDRO INCLUSION

Oligocene

Chiapas, Mexico

Having some plant matter inclusions and most notably, a large bubble with water trapped inside, easily visible when one tilts the specimen from side to side. *Weighing approximately 93.0 carats (18.6 grams) and measuring 60.75 x 42.32 x 13.50mm*

\$1,000 - 1,500

448

LARGE AMBER SPECIMEN WITH INSECT INCLUSIONS

Dominican Republic

Having numerous unidentified insect inclusions visible in contrast to the amber. *Weighing approximately 52.0 grams and measuring 3 1/8 x 2 1/4 x 1/2in*

\$3,000 - 5,000

449

LARGE AMBER SPECIMEN

Cretaceous

Myanmar (formerly, Burma)

A large specimen with deep red color, particularly visible with translucency at the edges, having a convoluted surface and lines of deposition visible to the reverse side. *Weighing approximately 783.2 grams and measuring 7 1/2 x 5 x 4 in*

\$800 - 1,200



448



449



450

450

FEATHER IN BURMESE AMBER

Indeterminate species

Cretaceous

Myanmar (formerly Burma)

Known as Burmese Amber, one of the oldest clear types of amber found in the world comes from Myanmar. Preserved with amazing definition in the present amber specimen is a rare feather. *Amber piece measuring 1in*

\$2,000 - 2,500



451

451

FLOWER IN BURMESE AMBER

Indeterminate species

Cretaceous

Myanmar (formerly Burma)

Burmese Amber is deeper in color than younger amber, is harder than younger amber and becomes much bluer in ultraviolet light. Offered is a flower specimen, which became embedded in amber from a prehistoric forest of Myanmar. *Amber piece measuring 3/4in*

\$500 - 700



452

452^w

AMBER FLOWER STUDY

Baltic Region

This is a traditional form of a Baltic folk art incorporating a local mineral: amber. Depicting a bouquet of roses, comprising numerous flower heads and buds carved of amber as well as serrated carved leaves. The stems are formed from actual dried rose stems. The three-dimensional flower heads are formed of individually carved pieces of amber making up the petals where as the flower buds are each carved from a single piece of amber. Backed with black velvet, *framed*. *Measuring 18 x 14in*

\$800 - 1,200

453^w

AMBER NUGGET FLOOR LAMP

Indonesia

A unique floor lamp consisting of an old teak wood tree trunk into which several hundred polished amber nuggets have been placed. The nuggets have a cognac colored body color, but under ultraviolet light they fluoresce a strong blue. The lamp is raised on a wooden base formed of teak wood. The organic shape together with the warm atmospheric light created by this unique lamp is sure to lend itself to any number of interior applications. *Height 85 in*

\$4,000 - 6,000





454



455

FOSSILS

454

LARGE GREEN AMBER SPHERE

Oligocene

Chiapas, Mexico

A large amount of rough is wasted when creating a sphere so one can only imagine the size of the rough used to carve a sphere of such a large diameter. A cognac-colored body color with strong green overtones this sphere also has strong strong blue fluorescence. Weighing approximately 293 grams. Diameter 3 1/4 in

\$700 - 1,000

455

AMBER SCENT BOTTLE

Oligocene-Miocene

25 million years old

Dominican Republic

Carved in a classic gourd form, in the Chinese taste, the stopper and the body of the scent bottle both having a high degree of transparency and distinct green overtones, particularly under fluorescent light. Weighing 54 grams. Height 3 1/4 in

\$300 - 500

456

UNCOILED AMMONITE

Audolliceras sp.

Jurassic

Volga River, Ulianovsk Region, Russia

This delicately curled heteromorphic ammonite has been carefully prepared on its original matrix and displays iridescent mother-of-pearl surfaces on its ribbed shell. Measuring 9 x 7 x 3 in

\$500 - 700



456



457

457^w

LARGE AMMONITE ON STAND

Arietites bucklandi

Early Jurassic

Lyme Regis, Dorset, UK

A massive specimen, for the species, from a famous locality.

Fine preparation and overall aesthetics distinguish this decorative specimen. Diameter measuring 20in; Including stand, measuring 24in

\$6,000 - 8,000

Offered on a custom metal stand.

458^w

AMMONITE CLUSTER ON STAND

Lytoceras sp., *Pachydiscus* sp., *Cleoniceras* sp.

Late Jurassic

Tulear Morondava River Basin, Atsimo-Andrefana Region of Tular, Madagascar

A fascinating variety of sea life from the Late Jurassic. The great number of specimens indicates that a catastrophic event, such as an earthquake or underwater landslide, caused the mass death of countless individuals 161-156 million years ago. Offered on a custom bronzed pedestal. Height approximately 40 1/2 in

\$2,500 - 3,500

458A^w

A LARGE BAJA AMMONITE

Pachydiscus catarinae

Cretaceous

Baja California, Mexico

A superb specimen revealing the amazing suture patterns, diagnostic of the species, which were produced as the coiled cephalopod grew during its life. Both sides have been highly polished creating an aesthetically pleasing presentation. The specimen displays lovely, warm shades of cream, dark gray and chocolate brown. Offered on a custom steel stand.

Diameter measuring 20in

\$10,000 - 15,000



458



458A



459^w

LARGE AND IMPRESSIVE MADAGASCAN AMMONITE

Lytoceras

Jurassic, Oxfordian

Sakaraha, Atsimo-Andrefana, Madagascar

A massive specimen has been polished and mounted on a custom steel stand for exhibition purposes. The distinctive multi-patterned suture lines contrast nicely with the brown and beige of the mineralized fossil. *Diameter measuring 34 1/4; Height 49in including stand.*

\$10,000 - 12,500



460^w

DOUBLE AMMONITE ON MATRIX

Paracoroniceras lyra

Early Jurassic

Lyme Regis, Dorset, UK

Exceptionally well prepared, preserving their natural shell, two massive ammonites are presented on their natural matrix, making for a stunning visual presentation. Ammonites are extinct relatives of living marine mollusks such as the modern nautilus from Palau. They thrived in the Earth's seas throughout the Jurassic and Cretaceous.

Measuring 34 1/2 x 24 1/2in

\$15,000 - 18,000



461



462

461^w

LARGE FREESTANDING ORTHOCERAS TOWER

Geisonoceras sp.

Middle Devonian

Sahara Desert, Morocco

Numerous nicely preserved orthoceras specimens provide a natural sculptural presentation in black and white. Orthoceras is an extinct cephalopod, somewhat similar in morphology to today's squid.

Measuring 75 x 8 x 6in

\$1,250 - 1,500

462^w

BELEMNITES

Youngibelus tubularis

Early Jurassic

Holzmaden, Germany

Belemnites are an extinct order of squid-like cephalopods, which thrived in the Earth's seas from the Late Triassic to the Late Cretaceous. Offered are several nicely preserved belemnite specimens. *Measuring 29 x 18 3/4in; Large specimen measuring 6 3/8in*

\$600 - 800



463

463

PYRITIZED AMMONITE SPLIT

Speetoniceras versicolor

Lower Cretaceous

Volga River, Ulyanovsk Region, Russia

A fine ammonite with subtly sparkling pyrite replacement has been cut in half to reveal the beautiful chambers of the interior. The cut surface has been polished to an attractive lustre, accentuating the brilliant golden color within. *Measuring 12 1/2 in (2)*

\$1,200 - 1,500

464

IRIDESCENT AMMONITE

Quenstedtoceras

Jurassic

Volga River, Ulyanovsk region, Russia

A decorative ammonite in matrix showing good ridge structure and pastel coloration with good iridescence visible. *Measuring 8 x 7 x 3 in*

\$700 - 900

465^w

LARGE CRETACEOUS AMMONITE SCAPHITE

Jeletzkytes nebrascensis

Late Cretaceous, Upper Maastrichtian

Fox Hills Formation, Dewey County, South Dakota

Scaphites were small and voracious feeders with large, parrot-like jaws which they used to crush their prey. The body chamber was turned inward toward the shell, which may have helped not only in their strategy to capture their prey but also in feeding. *Jeletzkytes* is so time-specific that it is used as an index fossil to help define ages during the Late Cretaceous. A beautiful red coloration recommends the present specimen.

Diameter measuring 5in; Overall presentation measuring 8 x 7in

\$800 - 1,000



464



465



466

466^w

ASSEMBLAGE OF PREHISTORIC SHELLS

Gigantopecten restitutus

Miocene

Lacoste, France

A dramatic and stunningly beautiful display of fossils from a Miocene shoreline sediment, this natural assemblage of fossilized pectins would be equally at home in an invertebrate collection or as a decorative accent. From a genus of large scallop, a marine bivalve mollusk, the naturally blanché assemblage displays the interesting texture and dimensional depth of each specimen, which are positioned as discovered in limestone matrix. *Measuring 19 7/8 x 11 1/2 x 5 1/4 in*

\$3,500 - 5,000



467

467^w

SEA URCHINS WITH PECTIN SHELL, IN MATRIX

Echinoid, Pecten yessoensis

Miocene

Provence, France

A fascinating slab of Miocene seabed boasts an attractive group of sea urchins with one pecten shell, embedded in natural stone matrix. This is a highly decorative piece, displaying wonderful dimension and fine detail in the specimens. *Measuring 19 x 10 7/8 in*

\$1,000 - 1,250



468

468^w

A SCULPTURAL ORTHOCERAS GROUP

Geisonoceras sp.

Middle Devonian

Morocco

Composed of black fossil-bearing marble, this is an exceptional orthoceras plaque. Orthoceras, meaning *straight horn*, was an extinct cephalopod related to today's squid and chambered nautilus. The present plaque bears testimony to a geological cataclysm which caused the sudden death of a large number of individuals—known as a *mass mortality* event. It also provides evidence that *Geisonoceras* was a gregarious colonial creature. Each specimen is polished to reveal the fine detail of the chambers. *Measuring 38 x 32 in*

\$900 - 1,200

469^w

LARGE ORTHOCERAS PLAQUE

Geisonoceras sp.

Middle Devonian

Sahara Desert, Morocco

Orthoceras, meaning *straight horn*, was an extinct cephalopod related to today's squid and chambered nautilus. The present plaque bears testimony to a geological cataclysm which caused the sudden death of a large number of individuals—known as a *mass mortality* event. It also provides evidence that *Geisonoceras* was a gregarious colonial creature. Each specimen is polished to reveal the fine detail of the chambers. *Measuring 68 x 35in*

\$2,000 - 3,000



469

470^w

EXQUISITE HETEROMORPH AMMONITE ON BASE

Didymoceras nebrascenense

Late Cretaceous

Pierre Shale Formation, Southwestern South Dakota

Because these uncommon specimens cannot be commercially collected (and are only rarely found by excavators as shale nodules are opened in the search for more common fossils) *Didymoceras* specimens are perhaps the most desired ammonites in the world. The bizarre shapes of the coprolitic heteromorph (meaning *loosely coiled*) ammonites have inspired the imaginations of ammonite collectors the world over. This excellent 70-million-year-old example has been painstakingly freed from its surrounding rock matrix revealing a dark honey to pearlescent white iridescent shell. This specimen was prepared by Neal Larson and is offered on a natural wood base. *Measuring 8 x 5 3/4 x 5 1/2in*

\$5,000 - 7,500



470

471

GROUP OF SCAPHITES ON MATRIX

Hoploscaphites, *Jeletzkytes spedeni*

Cretaceous

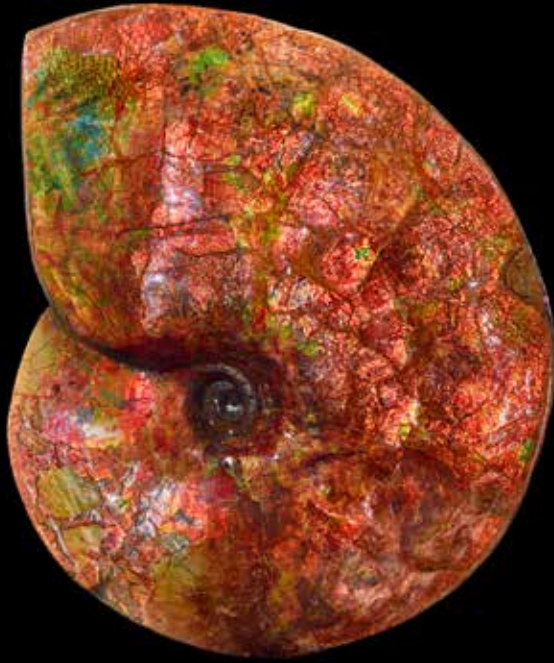
South Dakota

Opalescent scaphites display subtle hues of cream, pink and green, beautifully contrasted with gray-black stone matrix. *Measuring 6 1/2 x 6 1/2in*

\$500 - 600



471



472



473



474

472

IRIDESCENT AMMONITE

Placenticerus meeki

Cretaceous

Bearpaw Formation, Alberta, Canada

Ammonites were relatives of the chambered nautilus; they became extinct when the dinosaurs did, about 65 million years ago. Iridescent ammonites such as this one are found in a few quarries in Alberta, Canada, most commonly as broken fragments, but sometimes as complete shells. This shell is iridescent on both sides with vivid reds and greens. *Measuring 10 x 8 1/2 x 2 in*

\$3,000 - 5,000

473^w

JURASSIC AMMONITES IN MATRIX

Harpoceras falcifer, Dactyloceras commune

Early Jurassic

Lower Jurassic Lias, Holzmaden, Germany

180-170-million-year-old ammonites are featured in this plaque from the Jurassic Period. Presented in their original matrix. *Measuring 21 1/4 x 38 1/2 in*

\$800 - 1,000

474

AMMONITE AND NAUTILOID

Stephanoceras

Jurassic, Bajocian

Evrecy, France

Four ammonites, in association with a *belemnite* and a *nautiloid*, display the diversity of fauna found closely associated in original matrix from Evrecy, France. *Measuring 8 5/8 x 6 x 4 3/4 in*

\$700 - 900



475

475^w

DOUBLE NAUTILUS SPECIMEN WITH STAND

Cenoceras sp.

Early Jurassic

Lyme Regis, Dorset, UK

Exceptionally well prepared, two massive nautiloids have been prepared on their natural matrix making for a stunning visual presentation. Specimens measuring 12in and 11in, respectively; Including stand, measuring 36in

\$10,000 - 12,000



475A

475A^w

A LARGE TRILOBITE PLAQUE

Xenasaphus devexus

Middle Ordovician, Uhaku Regional Stage

Volchov River, St. Petersburg, Russia

Mass mortality plates are highly unusual in the trilobite world. Plates featuring trilobites averaging eight centimeters in length are even more rare. The present *Xenasaphus devexus* assemblage, found in the Ordovician strata on the outskirts of St. Petersburg, Russia, is one of the finest ever found. Trilobites were the first creatures on Earth to possess complex eyes. One of the earliest-known groups of arthropods, trilobites were among the most successful of all early animals, existing in the oceans for over 300 million years. They vanished with the Permian Extinction, 250 million years ago, long before the appearance of the first dinosaurs.

Measuring 33 1/2 x 30in

\$10,000 - 15,000



476

TRILOBITES

476

AMMONITE AND GASTROPOD

Stephanoceras, Pyrgotrochus

Jurassic, Bajocian

Evrecy, France

A rare fossil gastropod is presented with an ammonite and a belemnite on a natural matrix pedestal. *Measuring 10 x 6 1/2in*

\$600 - 800



477

477

AMMONITE GROUP

Hammatoceras bonareli

Jurassic, Toarcian

Belmont, France

A fine assemblage of aesthetic ammonites has been prepared on matrix, revealing two distinct species, which lived at the same time. A beautiful sculptural presentation. *Measuring 16 x 12 x 4in*

\$800 - 1,000



478

478

ODONTOCHILE TRILOBITE

Zilchovaspis rugosa

Lower Devonian

Issafen, Morocco

Zilchovaspis is one of the classic trilobite genera to have emerged from the fossil-rich Devonian strata of Morocco. There are a number of *Zilchovaspis* species that hail from this location, with *Zilchovaspis rugosa* being among the more unusual. *Measuring 4 x 2 in*

\$600 - 800



479

479

SPINY TRILOBITE

Koneprusia dahmani

Lower Devonian

Timhanhart Formation, Morocco

Only over the last decade have the preparator's skills allowed for trilobite presentations such as this. Featuring dozens of free-standing spines, this elegant 420-million-year-old specimen is clearly one of the most dramatic examples of fossil fauna to emerge out of this rich Moroccan locality. *Measuring 1 1/2 x 1 3/8in*

\$2,000 - 2,500

480

A SUPERB TRILOBITE

Drotops armatus

Middle Devonian

Jebel Issoumour, Morocco

Armed like a Paleozoic battle tank, the spine-covered phacopids rank among the most impressive of all Devonian trilobites. During this period, as the seas surrounding them began to produce ever-larger and more menacing predators — such as jawed fish — trilobites needed to produce more effective defensive measures. Species such as *Drotops armatus* did exactly that. The present specimen is a beautifully prepared example, which showcases every angle of the amazing individual. *Measuring 4 3/4 x 2 1/4in*

\$2,000 - 2,500

481

WALLISEROPS TRILOBITE

Walliserops trifurcates

Middle Devonian

Zguid, Morocco

Known throughout the world as the Trident Trilobite, academics still puzzle over the possible evolutionary role played by the pronounced rostral protrusion displayed by *Walliserops trifurcates*. Theories include possibilities of its use in defense, feeding or mating. *Measuring 2 7/8in*

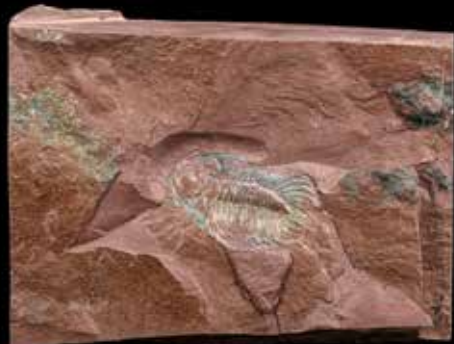
\$1,800 - 2,400



480



481



482

482

SPANISH TRILOBITE

Eccaparadoxides prodoanus

Middle Cambrian

Solenopleuropsisribeyroi biozone, Zaragoza, Spain

This attractive Spanish *Eccaparadoxides* specimen is scientifically significant. When compared to similar species emerging from Wales, Newfoundland, Morocco and the Czech Republic, it lends further support to the theory of plate tectonics, which postulates that continents slowly drift across the surface of the planet over extended periods of geologic time. *Measuring 6 1/4 x 4 5/8in*

\$800 - 1,000



483

483
SPINY SCUTELLID TRILOBITE

Bojoscutellum sp.
Lower Devonian
Timrhanhart Formation, Zguid, Morocco

Despite more than thirty years of supplying the fossil world with exotic new species, Morocco can still produce a number of faunal surprises. The present *Bojoscutellum*, perfectly prepared to expose a variety of spikes and horns, is one of the most rare species to emerge from the rich deposits of North Africa. Measuring 1 3/4 x 2 1/2 in

\$5,000 - 6,500



484

484
LOBOPYGE TRILOBITE

Cyphaspidetes sp.
Lower Devonian
Jorf, Morocco

Over the past few years, the exciting new Devonian excavation site of Jorf has emerged as a star attraction on the Moroccan paleontological map. The trilobites that emerge from this locale are beautifully preserved, often in a clear calcite, which picks up the color of their host matrix. The present *Chyphaspidetes* specimen is an unusual example of the Jorf fauna. Length 1 in

\$1,500 - 1,800



485

485
A SPECTACULAR MULTIPLE TRILOBITE PLAQUE

Arctinurus
 Silurian
 New York

The fossils of the Silurian-age Rochester Shale were originally noted during the construction of the Erie Canal, which took place from 1814 until 1825. Rather than being celebrated at that time, however, the discovery of these 420-million-year-old specimens generated confusion and consternation among members of the scientific community. Quite simply, no one had previously seen a treasure trove of material of that kind, and few, if any, knew what to make of these fossil riches. Some of the earliest scientific descriptions of many prehistoric genera were based on discoveries made in this renowned Paleozoic locale in Western New York State. And, of all the trilobites found in this historic area, none possess the academic value nor the collectable panache of *Arctinurus boltini*. The present overlapping multiple specimen is particularly significant considering the rarity — and inherent beauty — of this large lichen. *Measuring 8 1/2 x 8 7/8in*

\$8,000 - 10,000



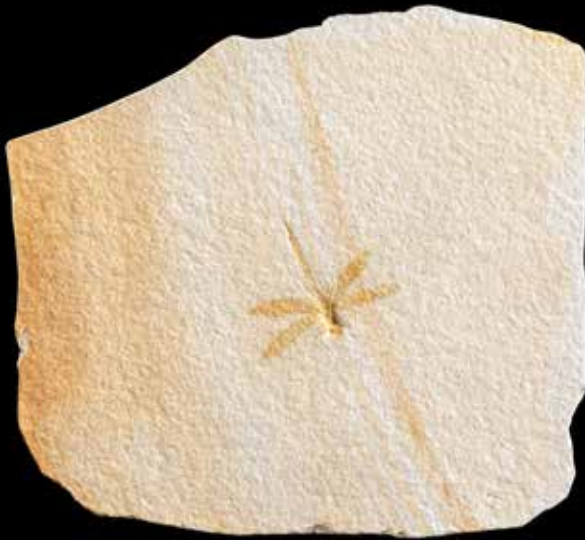
486

486
REEDOPS TRILOBITE

Drotops megalomaniacus
 Middle Devonian
 Issoumour, Morocco

Of all the trilobites that have come to symbolize the Moroccan Trilobite Revolution that has taken place over the last three decades, none come close to matching *Drotops megalomaniacs* in terms of instant recognizability. This example has been meticulously prepared, with even its ventral side fully exposed. *Measuring 3 x 1 3/8in*

\$700 - 900



487

ARTHROPODS

487

EXQUISITE DRAGONFLY

Stenophlebia sp.

Late Jurassic

Solnhofen, Eichstadt, Bavaria, Germany

During the Late Jurassic, Europe was dotted with small islands. One of these areas of small islands was in the region now known as Bavaria. The climate at the time was warmer; dragonflies swarmed in the lagoons and rivers, darting to and fro to avoid falling prey to pterosaurs, lizards and small dinosaurs, and searching for food. The present fine dragonfly specimen is presented in the sub-lithographic limestone slab in which it was discovered. Measuring 11 1/2 x 11in; Specimen measuring 2 1/2 x 3 1/8in

\$1,000 - 1,500



488

488

WATERSPIDER

Chresmoda obscura

Late Jurassic

Solnhofen, Germany

A very large and well preserved waterspider specimen on the lithographic limestone of the famous Solnhofen locality. The specimen exhibits excellent detail. Measuring 14 1/4 x 14in; Specimen measuring 4 1/8in

\$2,000 - 2,800



489

489

HORSESHOE CRAB

Mesolimulus walchi

Late Jurassic

Solnhofen, Germany

Xiphosura, the horseshoe crabs, are related to the extinct Eurypterids, and more distantly to spiders and scorpions. Their lineage traces back to the Cambrian and extends to modern times as the genus, *Limulus*.

This fossil is from a similar genus known as *Mesolimulus*, from the Solnhofen lithographic limestone deposits of Eichstatt, Germany. The 150-million-year-old lagerstätte deposits of Solnhofen are famous for their exceptionally well-preserved organisms. Measuring 7 1/2 x 10 7/8in; Specimen measuring 6 3/8in

\$1,000 - 1,500



491



490



492

490
A FINE SHRIMP
Antrimpos sp.
Late Jurassic
Solnhofen, Germany

The superb detail in this specimen is a testament to the fine preservation seen in fossils from the famous Solnhofen locality. *Antrimpos* is an extinct member of the Decapoda, a diverse group of arthropods. Given the lightness and loose articulation of the carapace (shell) of decapods, excellent preservation - as seen in the fine detail of the present example - is exceptional. *Measuring* 13 x 10in; *Specimen measuring* 7 1/2in

\$1,000 - 1,200

491^w
HOESHOE CRAB WITH TRACKWAY
Mesolimulus walchi
Late Jurassic
Solnhofen, Germany

A well preserved trackway records the journey of a horseshoe crab in the *lithographic limestone* of Solnhofen, a paleontological record of the shallow marine environment of the Late Jurassic. Horseshoe crabs are considered *living fossils*, as they have changed little over the ages. Highly diverse during the Paleozoic Era, there are now only three extant species. *Measuring* 22 1/4 x 25in; *Specimen measuring* 5 3/8in

\$4,500 - 5,500

492
FOSSIL FROG
Rana pueyoi
Miocene
Libros, Spain

A fossil frog from the lacustrine (lake) sediments found near Libros, Spain. *Rana pueyoi* is a large, extinct frog species. *Measuring* 7 x 4 5/8in

\$1,000 - 1,500



493

493

**TRIASSIC AMPHIBIAN SKULL WITH
SCIENTIFIC RESEARCH PROVENANCE**

Wantzosaurus elongatus

Early Triassic

Madagascar

A finely preserved marine amphibian, *Wantzosaurus elongatus* from the Early Triassic of Madagascar. Such pieces are rarely found and, when they are discovered, their preservation is seldom perfect. The present example has been scientifically studied and has served as verification to confirm findings on the holotype. Part and counterpart of a *Wantzosaurus elongatus* are separately displayed in interesting vertical presentations on custom black metal stands. Also offered is a research quality cast replica of the upper portion of the skull, as the exterior of the skull would have appeared. *Wantzosaurus elongates*, a peculiar marine amphibian which may have moved in an undulating, snakelike manner, is a species that is rarely seen on the market. It lived in shallow coastal waters; its sharp teeth were suited to preying on fish and other smaller amphibians. *Measuring 6 1/4 x 4in (3)*

\$7,000 - 8,000

494

CRINOID

Encrinurus lilliformis

Middle Triassic

Germany

The finely detailed calyx of this crinoid has been expertly prepared, revealing detailed features of the well-preserved specimen. *Measuring 5 x 3 3/4 x 1 1/4in*

\$700 - 900



494



495^w

LARGE CRINOID COLONY

Scyphocrinus elegans

Silurian and Devonian

Morocco

Popularly known as sea lilies due to their plant-like appearance, crinoids are marine invertebrates which evolved flower-like *calyxes* in order to sift plankton from seawater for feeding. Unlike most species of crinoids, *Scyphocrinus elegans* evolved a ball-like structure, or *lobolith*, which acted as a buoy, allowing the creature to float and drift rather than requiring a root attachment. In the present offering, a richly textural, large, art-like presentation of numerous sea lily specimens rests within the rust-toned matrix of the locality, its beautiful color derived from the presence of iron oxide in the matrix.

Measuring 67 x 51 1/2in

\$15,000 - 20,000



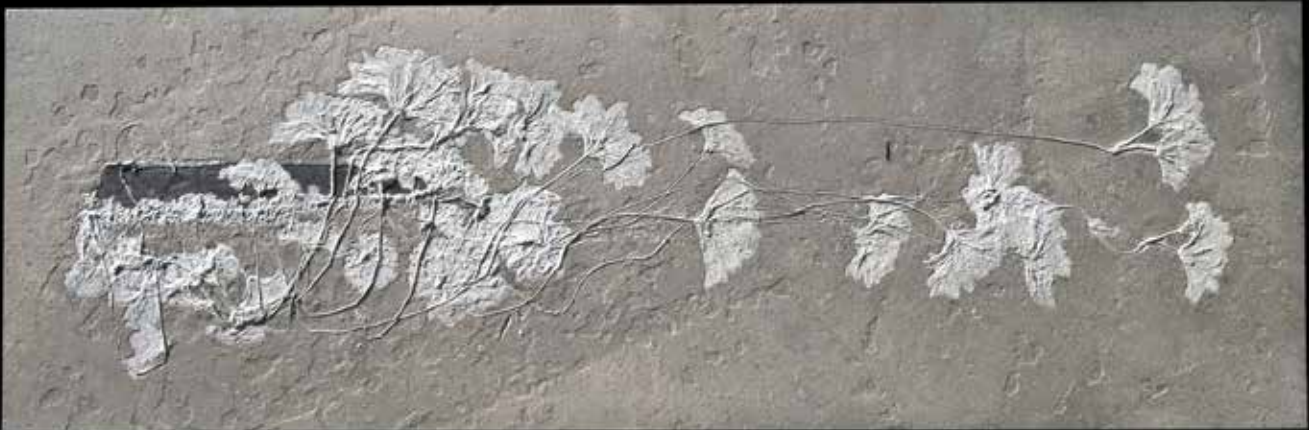
496^w

PYRITIZED CRINOID

Pentacrinus fossilis
Lower Jurassic, Sinemurian
Lyme Regis, England

A marvelous pyritized crinoid plaque exhibiting amazing detail. Pyrite mineral replacement lends an elegant, subtly glistening coloration. *Pentacrinus* was a floating sea lily which attached to wood during adulthood and filter-fed on plankton. Generous size and excellent preservation recommend the present fine exhibit specimen. Its origin, Lyme Regis, is famous as the birthplace of earth science. On these English beaches, Mary Anning, at only twelve years of age, found the first complete ichthyosaur ever discovered in England.
Measuring 51 1/2 x 38 1/4in

\$18,000 - 22,000



497^w

SUPERB GERMAN CRINOID COLONY

Seirocrinus subangularis

Jurassic

Holzmaden, Germany

In one of the largest naturally occurring crinoid colonies available outside of a museum collection, these superbly well preserved sea lilies form a spectacular natural composition in rich gray-black stone matrix.

Perhaps the most beautiful of all species to arise from the famous Holzmaden locality are the crinoids, commonly known as sea lilies. These delicate, plant-like life forms were actually animals, which passively fed in the warm, shallow Jurassic seas in the area now known as Southern Germany. The filter-feeders would attach to a floating object, typically driftwood (as seen preserved in the present specimen) and capture food in their delicate calyxes, the blossom-like portion of the body.

The present piece is composed of two panels displayed side by side, boasting a fantastic array of beautifully preserved 180-170-million-year-old specimens in an artwork created by nature during the Jurassic. An exceptional offering.

Measuring 4.85 x 1.6 meters

\$300,000 - 400,000



498



499

498

LARGE SHARK'S TOOTH

Carcharocles megalodon

Miocene

South Carolina

Megalodon was the largest shark that ever lived, growing to more than 50 feet in length. The individual that this tooth belonged to would have measured at least 60 feet in length. *Measuring 6in*

\$2,500 - 3,500

To be sold without reserve



500

499

SHARK TOOTH

Carcharocles megalodon

Miocene

South Carolina

A fine tooth from a classic locality, found in the muddy river waters of South Carolina. The recovery of *meg* teeth is a dangerous and arduous undertaking. *Measuring 4 3/8in*

\$1,500 - 2,000

To be sold without reserve



501

500

FOSSIL SHARK'S TOOTH

Carcharocles megalodon

Miocene

South Carolina

This excellent tooth is from the largest species of shark that ever lived. A beautiful example with fine enamel and serrations. *Measuring 5 1/2in*

\$2,000 - 3,000

To be sold without reserve

501

MEGALODON TOOTH

Carcharocles megalodon

Miocene

South Carolina

Fine serrations and a robust root make this shark tooth specimen a desirable acquisition for any collection. *Measuring 5 1/2in*

\$2,000 - 3,000

To be sold without reserve



502^w

FOSSIL FISH MURAL

Phareodus encaustus, *Cockerellites liops*, *Knightia eocanea*,
Diplomystus dentatus

Eocene

Green River Formation, Lincoln County, Wyoming

Fossil fish from the Green River Formation, which is an accumulation of fossils representing an entire Eocene ecosystem, are known for their fine preservation. These fossils are removed by hand, using hammer and chisel, employing much the same method as was used one hundred years ago. After being carefully transported to a laboratory, the limestone in which the fossils are encased must be meticulously removed by technicians familiar with the morphology of these 51-million-year-old fauna. An extremely large predatory fish, *Phareodus encaustus*, measuring 24 inches, is accompanied by one 16-inch *Diplomystus dentatus*, two *Cockerallites liops* and five *Knightia eocanea*. Framed in exotic Wenge wood and fitted with a cleat system for ease of mounting on any wall of conventional construction.

Measuring 70 x 47 1/2in

\$12,000 - 15,000



503

503^w

JURASSIC FOSSIL FISH

Pachycormus sp.

Lower Jurassic

Holzmaden, Baden-Wurttemberg, Germany

A rare fossil fish has been meticulously prepared and presented in the fine oil shale layers of bituminous marls, known as the Posidonia Shale, which outcrop in the Holzmaden area of Germany. This area has been quarried since the end of the 16th Century. Preserved along with the Jurassic fish is a *belemnite*. *Matrix measuring 38 x 28in;* *Specimen measuring 24 1/4in*

\$8,000 - 10,000



504

504

VERY LARGE, ABERRANT MEGALODON TOOTH

Carcharocles megalodon

Miocene

South Carolina

Measuring over six inches in height, this *Carcharocles megalodon* tooth is a covetable specimen. Most teeth found from this species are a mere 3-4 inches in height. *Carcharocles megalodon* was the largest shark that ever lived, growing to more than fifty feet in length. Estimating the length of a shark at about ten feet in length to every one inch of tooth, the formidable behemoth to which this tooth belonged would have measured over sixty feet long. Displaying attractive dark green-brown enamel and a black root, the intriguing specimen is also distinguished by an aberration: the blade is curved, not straight. Offered with a custom display stand. *Height measures 6 1/8in;* *Width measures 4 1/4in*

\$3,000 - 4,000



505^w

LARGE FOSSIL MOSAIC

Cockerellites liops, Knightia eocaena, Mioplosus labracoides

Eocene

Green River Formation, Lincoln County, Wyoming

Creating visual movement with the grouping of fossiliferous limestone tiles, an artistic interpretation of a *school* of fossil fish from the Eocene Epoch has been produced. The mosaic is fitted with a cleat system for ease of mounting on any wall of conventional construction.

Measuring 69 x 42 3/4in

\$2,500 - 3,500



506^w

CRETACEOUS FOSSIL FISH

Pachyrhizodus sp.

Cretaceous

Smokey Hill Chalk, Western Kansas

This piece represents one of the classic fish species from the Cretaceous inland sea of North America, which divided the continent in two during the Age of Dinosaurs. The intracontinental seaway teemed with monstrous fishes, exemplified by the present impressive specimen. This example is a very well-preserved specimen prepared and mounted for wall display. *Fish length measuring 66in; Overall presentation measuring 72 x 18 3/4in*

\$6,000 - 8,000



507



508

507^w

LEBANESE SHARK WITH MULTIPLE FISH

Eurypholis bossier
Scyliorhinidae
 Late Cretaceous
 Byblos, Lebanon

A rare phenomenon, this spectacular fossil shark is preserved in virtually perfect articulation, with all of its skin and fins nicely presented. Because shark skeletons are formed of cartilage, they seldom fossilize before succumbing to decay. The *Scyliorhinidae* lived very near or on the bottom of a prehistoric marine environment. At the time when the dinosaurs ruled the landmasses, these species flourished in the seas. All of the present specimens are natural to the stone and prepared without any restoration. *Measuring 23 x 21in (irregular in shape)*

\$6,000 - 7,500

508^w

LEBANESE GUITARFISH, STINGRAY AND FISH

Cyclobatis major, *Rhinobatos whitfieldi*
 Cretaceous
 Lebanon

The flora and fauna of the fine grained Lebanese *lagerstatten* sediments are among the finest preserved anywhere in the world. This piece presents a wonderful stingray, *Cyclobatis major*, alongside a guitarfish, *Rhinobatos whitfieldi*, accompanied by the smaller *Armigatus*. A marvelous display specimen. *Measuring 24 x 18in (irregular in shape)*

\$6,000 - 7,500



509^w

PAIR OF FOSSIL TILE MURALS

Knightsia eocaena, Cockerellites liops

Eocene

Green River Formation, Lincoln County, Wyoming

Artfully placed fossil fish tiles of limestone have created two gorgeous compositions, which can be placed directly together, or separated.

The murals are fitted with a cleat system for ease of mounting on any wall of conventional construction. (2)

Each measuring 66 x 30in

\$1,000 - 1,500



510^w

LARGE MASS MORTALITY MURAL

Knightia eocaena, Diplomystus dentatus, Phareodus testis
Early Eocene, Fossil Butte Member, Green River Formation, Wyoming
Featuring *Phareodus testis, Knightia eocaena* and *Diplomystus dentatus* fossil fish in a *mass mortality* group, numerous specimens form an aesthetically pleasing natural composition. The quality and articulation of each fish is exceptional. This mural represents one of the finest plates of fossil fish recovered from the layer known as the gastropod layer, a shoreline sedimentation which rarely produces such fine specimens. Framed in exotic Wenge wood and fitted with a cleat system for ease of mounting on any wall of conventional construction.
Measuring 77 x 35in

\$15,000 - 20,000



511

511^w

FOSSIL GUITARFISH

Rhombopterygia rajoides

Cretaceous

Lebanon

Cartilage does not preserve nearly as well as bone, and fossil skates of any type are uncommon. This is one of the eight known species of Guitarfishes from the Late Cretaceous localities in Lebanon. Offered is an impressive example. *Measuring 35 x 18 1/2in*

\$4,000 - 5,000

REPTILES

512

PLEISTOCENE TURTLE SHELL

Trachemys platymarginata

Pleistocene

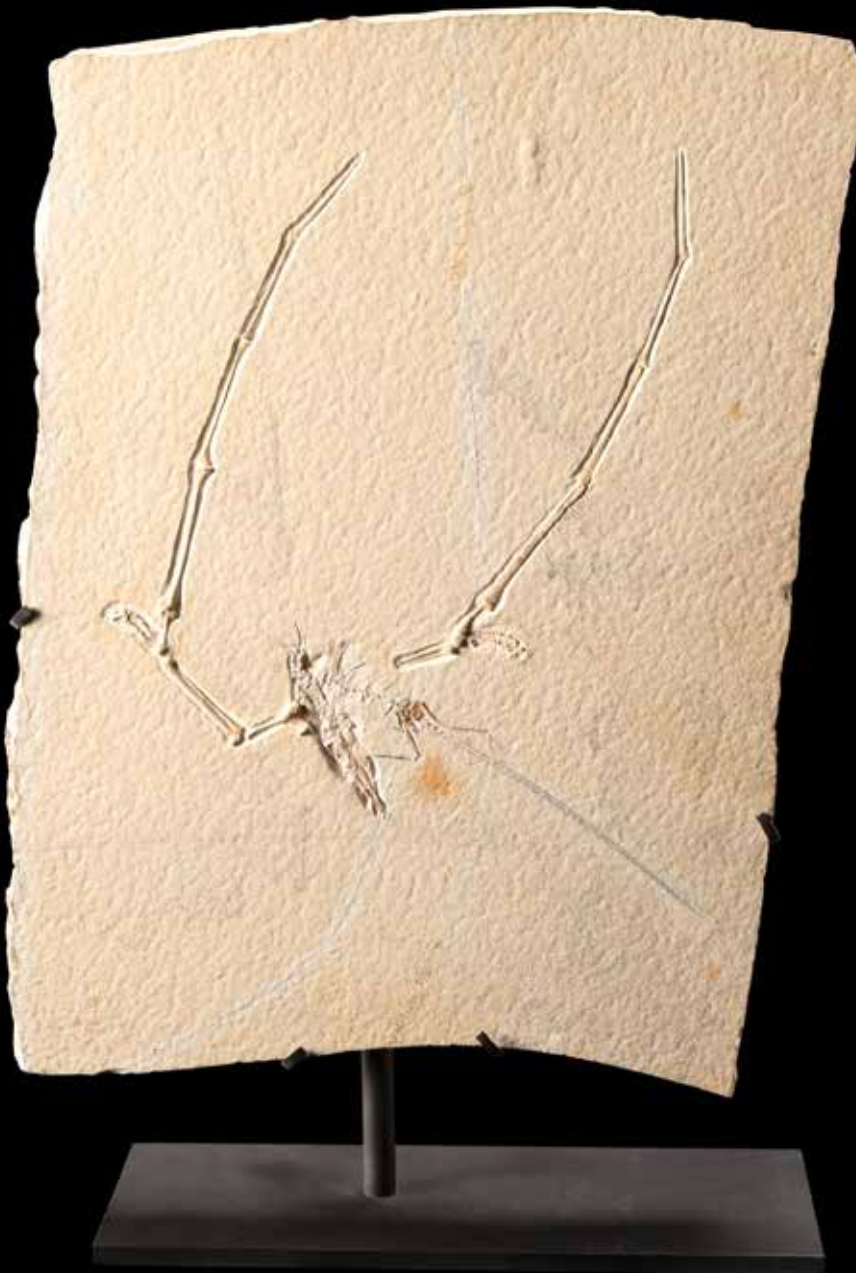
Gilchrist County, Florida

This specimen is a rare example of an extinct freshwater slider turtle. Offered is a complete *Trachemys platymarginata* shell, without a skeleton. *Measuring 11 x 8 x 3in*

\$2,000 - 2,500



512



513^w

RARE FLYING REPTILE

Rhamphorhynchus intermedius

Cretaceous

Wintershof, Bayern, Germany

From the marvelous Solnhofen locality comes this superb example of the flying reptile, *Rhamphorhynchus*. The genus grew to approximately 36 inches in length, with a long skull and the large eyes of a predator; the nostrils were set back on the beak. The teeth, which were most likely used to eat fish, slanted forward and interlocked. Each thin wing membrane, which probably attached near the hind limbs, stretched from a long fourth finger. The present beautifully articulated specimen would be a covetable addition to any vertebrate collection. *Measuring 20 x 14 1/4in; Including stand, measuring 23 1/4in*

\$45,000 - 55,000



(detail)



514^w

BABY ICHTHYOSAURUS

Ichthyosaurus communis

Lower Jurassic

Lyme Regis, Dorset, England

A wonderful, amazingly complete, juvenile ichthyosaur is presented in an irregularly shaped matrix. Displaying a distinctive bodyline, similar to today's dolphin, this now-extinct marine reptile, in fact, filled the same ecological niche as today's dolphin. Ichthyosaurs are important in the field of evolutionary biology; their fossils help demonstrate vertebrate adaptation from aquatic origins to terrestrial life and back to aquatic existence over millions of years. Of all known reptiles, ichthyosaurs were most completely adapted to their marine environment. Lyme Regis is famous as the birthplace of earth science. On these English beaches, Mary Anning, at only twelve years of age, found the first complete ichthyosaur ever discovered in England.

Measuring 35 x 21 1/2in

\$28,000 - 35,000



515^w

SPECTACULAR MARINE PREDATOR FROM THE AGE OF DINOSAURS

Mosasaurus platycarpus

Cretaceous

Niobrara Chalk Formation, Western Kansas

Mosasaurus menaced the inland sea, which divided North America during the Cretaceous Period, as dinosaurs ruled the landmasses. These marine reptiles were formidable apex predators with their rapid, snakelike swimming motion and razor-edged teeth. Due to the softness of the rock in which they are found, fossils from the *Niobrara Chalks* are generally embedded in a combination of matrix and plaster. In the case of the present specimen, a superb, highly dimensional presentation has been achieved through the removal of the entire skeleton from the original matrix and its skillful placement in a faux matrix. The skull is displayed in three dimensions and is exceptional in both completeness and preservation. An artistic two-toned representation of the animal's bodyline further enhances the piece. The specimen is mounted and backed with a steel framework for ease in wall mounting. This dramatic presentation will enhance any fossil collection. *Skull measuring 22in; Length of specimen measuring 20 feet; Overall dimension measuring 268 x 51in*

\$200,000 - 250,000



516



517



518

DINOSAURIA

516

EXCELLENT TYRANNOSAURUS REX TOOTH

Tyrannosaurus rex
Cretaceous

Hell Creek Formation, Montana

All *T. rex* teeth are in great demand, but those very few that are unbroken, with original tips, are rarely encountered. Such is the case in the present specimen, a rather thick tooth with the sharp, squared serrations characteristic of the species. Boasting an absence of crack restoration, which is typically seen in *T. rex* tooth specimens, the tooth exhibits *feeding wear* on the tip, which occurred during the life of the individual. All *T. rex* teeth are shed teeth, except the very few found with the dozen or so partial skeletons that have been discovered. This impressive and rare tooth was found in a prehistoric river or lakebed on a private ranch in the 67-65-million-year-old Hell Creek Formation of Montana. *Measuring 2 1/2in on the curve*

\$3,000 - 4,000

517

LARGE TYRANNOSAUR TOOTH

Tyrannosaurus rex
Late Cretaceous

Hell Creek Formation, Harding County, South Dakota

A huge *Tyrannosaurus rex* tooth exhibiting good surface enamel and superb serrations. Natural wear, which occurred during the life of the individual, is seen on the tip. Breakage and wear is typical in *T. rex* teeth; over the lifetimes of these famous carnivores, teeth were continuously damaged and broken, allowing for the growth of new teeth.

Measuring 3 3/4in

\$4,500 - 5,500

518

DINOSAUR CLAW

Suchimimus maroccanns
Cretaceous

Kem Kem Valley, Taouz, Morocco

Superb quality and excellent color recommend this dinosaur claw from a *Suchimimus*, also known as a *Spinosaurus*, which was made famous in *Jurassic Park III*: It was seen killing a tyrannosaur larger than *T-rex*.
Measuring 3 3/4in

\$800 - 1,200

519^w

LARGE DINOSAUR FEMUR

Unknown Sauropod

Jurassic

North Africa

This beautifully preserved, large femur (thigh bone) is from one of the gigantic sauropod dinosaurs that lived in North Africa during the Jurassic Period. Sauropods were the most massive dinosaurs among the behemoths of their time. They possessed a long, whip-like tail to balance the very long neck, a small head with nostrils above the eyes and pencil-like teeth located in the front of the mouth. Measuring over five feet in height, the present specimen would be a spectacular addition to any vertebrate collection. Offered on a custom steel base. *Measuring 68 x 35in. Measuring 45 1/2in x 14in, with stand 56 7/8in*

\$9,000 - 11,000





520



521

520

DINOSAUR CAUDAL VERTEBRA

Triceratops horridus

Cretaceous

Hell Creek Formation, North Dakota

A fine *Triceratops* specimen from the caudal portion (tail) of a *Triceratops* vertebral column (*spine*), mounted on a custom stand.

Triceratops is one of the most popular of the dinosaurs, with its distinctive three-horned face and giant frill. Here is an opportunity to acquire a fascinating specimen from the famous genus. *Measuring 6 x 2in; with stand: 9 1/4in*

\$800 - 1,000

521

THREE SCUTES FROM AN ARMORED DINOSAUR

Nodosaurus

Cretaceous

Hell Creek Formation, South Dakota

Nodosaurus (meaning *knobby* or *node lizard*) was an armored dinosaur which walked on four legs. This tank-like herbivore grew from thirteen to twenty feet in length. Bony dermal plates, exemplified by the present specimens, covered the top of its body. It displayed four short legs, five-toed feet, a short neck, a narrow head with a pointed snout, powerful jaws, leaf-shaped teeth and a long, clubless tail.

Offered are three scutes (*armor plates*) from a *Nodosaurus*. *Measuring 4 1/8 x 3 1/4in; 4 1/2 x 3in; 3 1/8in x 1 7/8in (3)*

\$1,500 - 2,000

522

SUPERB T. REX PREMAXILLARY TOOTH

Tyrannosaurus rex

Late Cretaceous

Hell Creek Formation, Harding County, South Dakota

A rare *T. rex* tooth in exceptional condition. Excellent serrations are seen on both edges of this fine *Tyrannosaurus rex* specimen.

Premaxillary teeth are found in the front, upper portion of the animal's dentition. The present specimen is a covetable prize. *Measuring 2in*

\$2,300 - 2,800



522



523

523

RARE DINOSAUR HAND CLAW WITH FINGER BONE

Deltadromeus

Late Cretaceous

Kem Kem Beds, Morocco

Deltadromeus was a speedy, bipedal carnivorous dinosaur of Cretaceous North Africa which grew to approximately 25 feet in length. Dinosaur claws are far more rare than dino teeth, due to the fact that teeth were replaced during the life of a dinosaur, whereas claws were not; also, carnivorous dinosaurs, such as *Deltadromeus*, were significantly fewer than herbivores. Offered is a superb claw, together with a finger bone of a rarely seen dinosaur genus. *Measuring 5 1/2in overall; Claw measuring 3in*

\$4,500 - 5,500

524

FOOT CLAW FROM A SAUROPOD DINOSAUR

Bothriospondylus madagascariensis

Late Jurassic

Kamoro, Madagascar

Displaying the natural tip wear of a foot claw belonging to a gigantic sauropod, which grew to 65 feet in length and weighed almost 40,000 pounds, this piece is a marvelous display specimen. *Bothriospondylus madagascariensis* was a long-necked, herbivorous Jurassic dinosaur which walked on four legs. The present fascinating offering is custom mounted on a black metal stand. *Measuring 5 1/4 x 3 1/8in; Measuring 6 1/4in including stand*

\$2,300 - 2,800

525

SAUROPOD DINOSAUR TOOTH IN JAW

Bothriospondylus madagascariensis

Late Jurassic

Komoro, Madagascar

Bothriospondylus madagascariensis was a long-necked, herbivorous Jurassic dinosaur which walked on four legs, grew to 65 feet in length and weighed almost 40,000 pounds. The present partial jawbone and tooth are embedded in the stone matrix as they were discovered. Offered on a black metal stand. *Measuring 5 x 3 1/2in*

\$2,300 - 2,800



524



525



526



527



528

526

EXCELLENT TYRANNOSAURUS REX TOOTH

Tyrannosaurus rex

Late Cretaceous

Hell Creek Formation, Harding County, South Dakota

Extraordinarily well-defined serrations are seen in this well-preserved *Tyrannosaurus rex* tooth specimen from the Hell Creek Formation of South Dakota. *Measuring 1 3/4in*

\$1,500 - 2,000

527

IMPRESSIVE DINOSAUR THIGH BONE

Pachycephalosaurus

Cretaceous

Hell Creek Formation, South Dakota

Exceptional completeness and attractive coloration distinguish this femur (thigh bone) from a *Pachycephalosaurus* dinosaur.

Pachycephalosaurus is sometimes called a *bone-headed* dinosaur due to the extremely thick structure of its skull. Offered on a custom designed black metal stand. *Measuring 16in*

\$3,500 - 4,500

528

LARGE DINOSAUR FOOT BONE

Edmontosaurus annectens

Cretaceous

Hell Creek Formation, South Dakota

This robust metatarsal foot bone is from an *Edmontosaurus*, a large herbivorous dinosaur often referred to as a *duckbilled* dinosaur. The bone quality is excellent, displaying fine surface preservation. Offered on a custom designed black metal stand. *Measuring 14in long*

\$1,500 - 1,800

529^w

A THIGH BONE FROM A BIRD-LIKE DINOSAUR

Struthiomimus

Cretaceous

Hell Creek Formation, South Dakota

Struthiomimus, meaning *ostrich mimic*, was a birdlike carnivorous dinosaur from the Late Cretaceous; its appearance was reminiscent of a giant ostrich. The present excellent femur (thigh bone) specimen is offered on a custom designed black metal stand. *Measuring 24 1/2in*

\$3,500 - 4,500





530

530

TRICERATOPS HORN

Triceratops sp.

Cretaceous

Hell Creek Formation, Montana

This 67-65-million-year-old *Triceratops* nasal horn, from a private ranch in the Hell Creek Formation in Montana, displays excellent preservation. The specimen exhibits only minor restoration on the bottom side of the horn. *Triceratops* horns are formed of keratin, the same material from which human finger nails are composed.

Measuring 8 x 5in

\$1,200 - 1,500



531

531

TRICERATOPS DORSAL VERTEBRA

Triceratops horridus

Cretaceous

Hell Creek Formation, North Dakota

A single dorsal vertebra on a custom stand creates a sculptural impression. *Triceratops*' distinctive appearance included three horns and a large bony frill, which, besides giving this creature lasting celebrity, may have served several purposes. Its horns could have been used by this herbivore for uprooting giant prehistoric trees, and its frill for extra protection as the trees fell. Offered is a single dorsal vertebra from *Triceratops horridus*. Mounted on a custom stand.

Specimen measuring 16 x 11 1/2in; Including stand, measuring 19in

\$2,500 - 3,500



532^w

TYRANNOSAURUS SKULL - CAST REPLICA

Tyrannosaurus tarbosaurus

Cretaceous

Central Asia

During the last part of the Cretaceous, 85 to 65 million years ago, the Tyrannosauridae ruled the land. While *T. rex* terrorized North America, the closely related *Tarbosaurus* - reaching lengths of more than twelve meters - menaced Mongolia. Classified as theropods, *Tyrannosaurids* walked on two legs and were carnivores, perhaps scavengers, whose fearsome teeth evidence their meat-eating habit. The present offering is a complete skull cast from the largest species of *Tyrannosaurus* found in Asia. The impressive piece has been mounted on a custom steel armature.

Measuring approximately 37 x 22 x 17 inches without the stand. Height 26 in with stand.

\$4,000 - 5,000

533^w

EOCENE CROCODILE – RESEARCH QUALITY CAST REPLICA

Borealosuchus wilsoni

Eocene

Green River Formation, Fossil Butte Member, Southwestern Wyoming

An exceptional crocodile specimen has been expertly molded and cast to produce a stunning replica of scientific quality. Suitable for use in research, this marvelous piece would also provide a stunning focal point for interior design purposes. The research quality cast has been inlaid into natural limestone from the excavation in which the original specimen was discovered. From tip of tail to tip of nose the specimen measures 11 feet.

Measuring 72 x 72in

\$12,000 - 15,000







534



535

MAMMALS

534

FOSSIL RABBIT

Prolagus sp.

Pliocene

Sardinia

The skeleton of a small rabbit is mounted in faux matrix within a shallow wood frame. The original collection label accompanies the specimen. *Matrix measuring 12 3/4 x 9 1/2in; Specimen measuring 8in*

\$1,500 - 1,800

535

THREE LARGE MAMMAL TEETH IN MATRIX

Brontotherium

Oligocene

White River Badlands, South Dakota

The brontotheres (also known as titanotheres) are an extinct family of large, rhinoceros-like mammals, which were ancestors of the horse, rhinoceros and tapir. The flattened surfaces of their teeth indicate that they were herbivorous. In the present specimen, three brontothere teeth are presented in matrix. Offered on a black metal custom display stand. *Measuring 8 1/2in*

\$800 - 1,000

Offered on a black metal custom display stand.



536^w

LARGE, RARE MAMMAL SKULL ON STAND

Kerabau sp.

Holocene

Germany

This large kerabau skull is an unusual find from Germany, as most examples of this genus come from Southeastern Asia. The skull has been mounted on a custom metal stand, making for a dramatic display.

Measures 50 x 40in

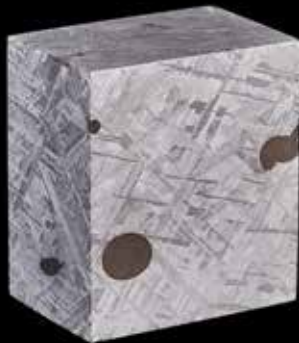
\$14,000 - 18,000



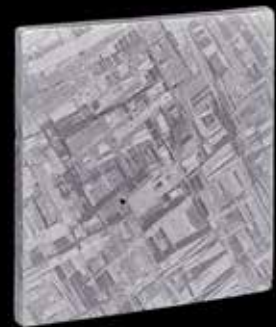
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538



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540

537

WILLAMETTE METEORITE--PARTIAL SLICE OF THE MOST FAMOUS METEORITE IN THE WORLD

Iron, medium octahedrite; shocked and recrystallized Clackamas County, Oregon

This offering provides the opportunity to own a small portion of a major museum exhibit. The Willamette meteorite is the largest meteorite found in North America. It has been the centerpiece in two renowned facilities: the Hayden Planetarium and the Rose Center for Earth and Space at the American Museum of Natural History in New York City, where it has been seen or touched by an estimated 50 million people. So completely renowned is the Willamette meteorite that whenever you open a textbook and there is just one picture of a meteorite, it will most likely be of the 15.5 ton Willamette. It is believed the meteorite fell in Canada or Montana and was deposited in Oregon by a glacier during the last Ice Age. Discovered in 1902, the meteorite was exhibited at the 1905 World's Fair and sold to Mrs. William E. Dodge, who then gifted the meteorite to the American Museum, where the meteorite has been on display for more than 100 years. In 1999 a coalition of Oregonian Native Americans filed a claim to have the meteorite returned to Oregon. The Museum filed a lawsuit in federal court that challenged the claim. The parties settled out-of-court, where it was agreed the meteorite would remain a centerpiece exhibit and never again be cut. As evidenced by the matrix, the Willamette meteorite is recrystallized, the result of a cataclysmic collision in outer space. Featuring one rim of the meteorite's exterior and a troilite inclusion in the lower right corner, this is a select specimen of the most famous meteorite in the world. *Measures 44 x 53 x 1mm (1 3/4 x 2 x 1/8in) and weighs 12.46 grams*

\$1,200 - 1,500

538

MUONIONALUSTA METEORITE ENDPIECE

Iron-Nickel – Fine Octahedrite Norrbotten, Sweden

A large, thick end-piece with a well polished face and etch revealing the classic Widmanstätten pattern. With fusion crust to the reverse and one sawn portion to the base allowing the specimen to nearly stand up on its own. *Weighing approximately 665.4 grams and measuring 3 1/2 x 2 x 2 in*

\$700 - 1,000

539

MUONIONALUSTA METEORITE WITH INCLUSIONS

Iron-Nickel – Fine Octahedrite Norrbotten, Sweden

With a well polished faces and etched to reveal the classic Widmanstätten pattern. Of rectangular form, with several large troilite inclusions. *Weighing approximately 2684 grams and measuring 3 x 3 3/8 x 2 1/8in*

\$3,000 - 5,000

540

MUONIONALUSTA FLAT PLAQUE

Iron-Nickel – Fine Octahedrite Norrbotten, Sweden

A slab with well polished faces, etched to reveal the classic Widmanstätten pattern. *Weighing approximately 265.2 grams 3 1/2 x 2 7/8 x 1/4in*

\$300 - 500



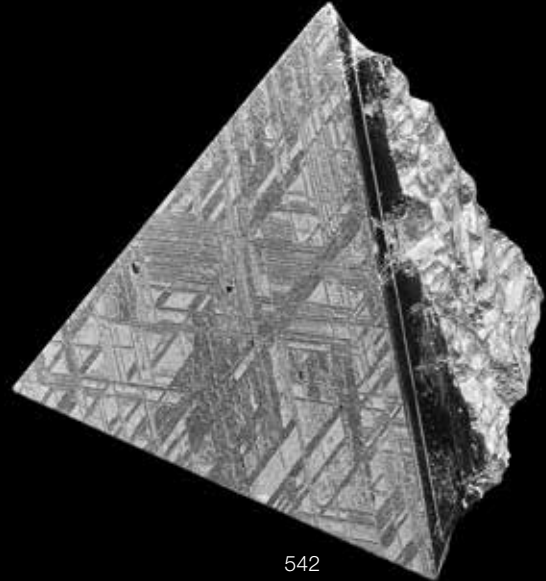
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541
PALLASITIC SEMYCHAN METEORITE SCULPTURE

*Iron-nickel, medium octahedrite
 Magadan District, Russia*

Designed as a dodecahedron, with both square and triangular-form faces, this table top or cabinet sculpture which is actually a pallasite with dark olivine inclusions has acid etched faces which reveal a coarse crystallization pattern. *Weighing approximately 1200.2 grams and measuring 3 1/2 x 3 x 3 in*

\$12,000 - 15,000



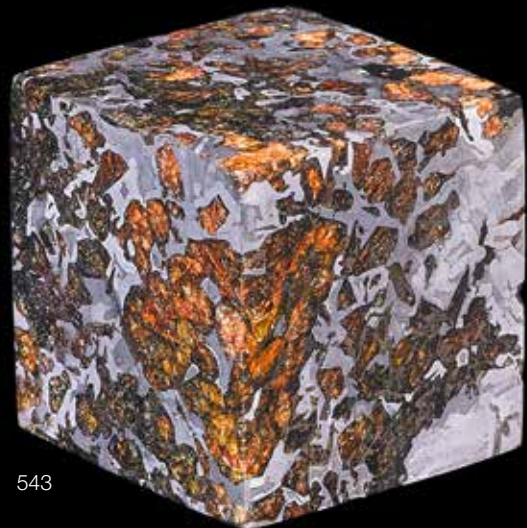
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542
MUONIONALUSTA METEORITE PYRAMIDAL SCULPTURE

*Iron-nickel, medium octahedrite
 Magadan District, Russia*

Designed as an equilateral pyramid with three acid-etched faces revealing the classic Widmanstätten pattern of crystallization for which this meteorite is known. The fourth side features a beveled-edge which is bright polished on all borders and centers on the original crust of the meteorite which as also been acid-etched but is not polished flat. A beautiful desktop or cabinet specimen. *Weighing approximately 449.8 grams and measuring 2 7/8 x 2 7/8 x 2 7/8in*

\$5,000 - 7,000



543

543
SEYMCHAN PALLASITE CUBE

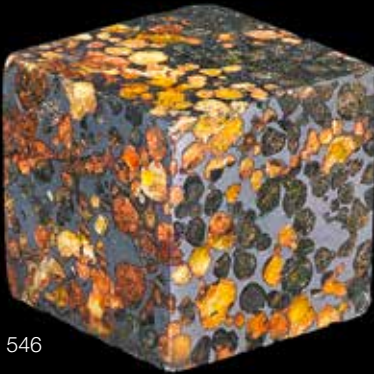
*Pallasite – PMG
 Magadan District, Siberia, Russia*

Seymchan was originally found in the far-eastern region of Russia in the summer, 1967, by a geological survey party near the Hekandue River, in the Magadan District of Russia. The presence of Olivine crystals in Seymchan evidences its origin near the core/mantle boundary of a differentiated body (thought to be an asteroid – a small, rocky body that orbits the sun) which was destroyed during the formation of our solar system, approximately 5.5 to 6 billion years ago. Plentiful olivine crystals can be seen within the polished nickel-iron matrix of this specimen. The present specimen is etched and polished to reveal the Widmanstätten pattern of crystallization. *Weighing approximately 650 grams and measuring 2 x 2 x 2 in*

\$3,500 - 5,500



544



546



547

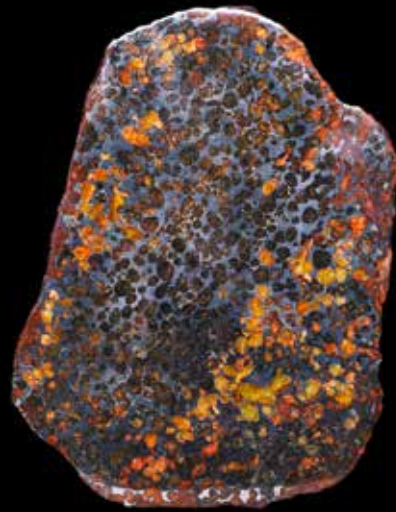
544

MUONIALUSTA CUBIC SCULPTURE

*Iron-Nickel – Fine Octahedrite
Norrbotten, Sweden*

A nearly cubic specimen, with well-polished faces and etched to reveal the classic Widmanstätten pattern. The specimen has the notable feature of having several troilite inclusions. *Weighing approximately 1823 grams and measuring 2 1/2 x 2 1/4 x 2 3/8in*

\$2,000 - 3,000



545

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PALLASTIC SERICHO METEORITE COMPLETE SLICE

*Pallasite
Sericho, Kenya*

Re-discovered by camel-herders in 2016, Sericho was found decades ago by Kenyan villagers. Having produced a strewn-field over 45 kilometers long, the majority of the pieces weighed over 50 kilograms. The present offering is a large slice which displays fusion crust on all edges and olivine crystals to the interior. *Weighing approximately 664 grams and measuring 8 3/4 x 6 1/4 x 1/4in*

\$3,500 - 4,500

546

PALLASTIC SERICHO METEORITE CUBIC SCULPTURE

*Pallasite
Sericho, Kenya*

Re-discovered by camel-herders in 2016, Sericho was found decades ago by Kenyan villagers. Having produced a strewn-field over 45 kilometers long, the majority of the pieces weighed over 50 kilograms. The present offering is a cubic sculpture with all faces displaying olivine crystals. *Weighing approximately 565.2 grams and measuring 2 x 2 x 2 in*

\$2,500 - 3,500

547

SIKHOTE-ALIN METEORITE - A RUSSIAN METEORITE

*Iron, IIAB
Sikhote-Alin Mountains, Maritime Province, Russia*

This Sikhote-Alin meteorite is the rarer of the two types, possessing regmaglypts, small crater-like impressions which formed by ablation of troilite when the meteorite was streaking through the sky at high temperature. The large meteorite body broke up twice during its fall to Earth with only the higher breakup creating the meteorites with the regmaglypts; the lower breakup creating the shrapnel-type meteorites. The present specimen is distinguished by various sized regmaglypts, excellent smooth surfaces and gunmetal gray color. Having fallen on Feb. 12, 1947 in Siberia, Sikhote-Alin iron-nickel meteorites are the best preserved of all known iron-nickel meteorites. Offered with a magnetic display stand. *Measuring 2 1/2 x 1 3/4 x 1 in. Weighing 315 grams*

\$1,200 - 1,500



548

548

GEM QUALITY STONY METEORITE

Non-characterized NWA

Sahara Desert

There are three basic types of meteorites, stony, stony-iron and iron-nickel. All three types come from the asteroid belt (except for the Mars, Moon and Vesta meteorites) and formed when our solar system formed some 4.57 billion years ago; therefore they are far older than any rocks found on Earth. Most stony meteorites are sectioned for collectors; acquiring a fresh gem quality stony meteorite is rare. This gem quality meteorite is magnetic, as are all stony meteorites that do not come from a planet, and is probably an ordinary chondrite meteorite with chondrules. Chondrules are ground bits of material, generally round in shape, that cooled and joined together to form the asteroids and planets when the solar system was formed. What makes this stony meteorite special is the presence of 100% of its original fusion crust with a bit of desert sand. There is also a 1 x 1-inch window cut into one corner of the meteorite to display its dark brown interior with speckles of shiny iron chondrules. This specimen looks as fresh as if it fell yesterday. *Measures 4 x 2.75 x 1.25in; Weighs 500g*

\$1,200 - 1,500

549

LUNAR METEORITE - A SLICE OF THE MOON

NWA 10415 - Lunar impact Feldspathic Breccia

Lunar Highlands

This substantial section of the important Lunar impact meteorite, Northwest Africa 10415, is housed in a special membrane box for easy removal and visibility on all its sides. Almost all of the recovered Lunar meteorites are extremely small; the entirety of NWA 10415, found in Northwest Africa in 2015, weighed just 164 grams. The present specimen is a mix of different types of moon rocks, which were blasted off the surface of the moon from an impact with a fairly large meteorite, mixed together with molten vaporized rock and solidified in a fine grain matrix. This slice features a dark shocked matrix filled with light colored feldspathic clasts, dark gray clasts and small vesicles. Interestingly, no lunar meteorites have been found in North America, South America or Europe. Offered with an A J meteorite pedigree. *Measures 35 x 25mm; Weighs 3.01g*

\$2,200 - 2,800



549



550

550

SEYMCHAN METEORITE - POLISHED SPHERE

Iron Octahedrite, IIE Pallasite

Magadan, Russia

Originally discovered by a geological survey party near the Hekandue River in Magadan District, Russia, the Seymchan Meteorite contains olivine crystals, indicating its origin near the mantle/core boundary of a differentiated planetary body. The present eye-catching sphere has been highly polished to a mirror-like finish with beautiful *olivine* crystals visible. *Weighs 1,144g; Diameter measures 2 1/2in*

\$7,000 - 9,000



551^w

LARGE IRON METEORITE - COMPLETE INDIVIDUAL

Campo del Cielo

Iron, Coarse Octahedrite

Gran Chaco, Argentina

In 1576, nearly 4,000 years after *Campo del Cielo* collided with Earth, native South Americans told Spanish explorers of the heavy metal which fell from the heavens and which gave rise to the name of this famous locality, translated as *Field of the Sky*. Spanish explorers, unaware of the extraterrestrial origin of the curiously heavy masses, wrote about them and endeavored to extract precious metals from them until 1770. It was not until 1962 that a comprehensive study of the famous Gran Chaco locality was made. *Campo del Cielo* meteorites are classified as polycrystalline, coarse octahedrites with a significant amount of silicate-graphite-troilite inclusions. Offered is a large, complete individual. This highly aesthetic specimen displays deep *regmaglypts* on the entire surface. *Weights 260lbs; Measuring 23 x 15 x 12in*

\$35,000 - 45,000



552^w

IMMENSE PALLASITE METEORITE - COMPLETE SPECIMEN

Stony-Iron, Pallasite

Isolo, Kenya

Pallasites are arguably the most beautiful of all meteorites, containing literal gemstones from outer space. In this class of meteorite, olivine crystals, ranging in color from greens to yellows and browns, and varying in translucency, are suspended in an iron-nickel matrix. Stony-iron meteorites, making up only 1 to 2% of all known meteorites, are rare, and pallasites (a stony-iron sub-group) are rarer still. Pallasites are named after *Peter Pallas*, for his study of this class of meteorite.

The present colossal specimen, weighing over one thousand pounds, displays the desirable *remaglypts* which evidence the intense heat and pressure exerted on the mass during its fiery entry into Earth's atmosphere. The presence of *remaglypts* over the entire surface of the specimen indicates that it tumbled through the atmosphere, turning at every angle, before its final impact. This is a stupendous specimen, which could provide the cornerstone of a serious meteorite collection.

Weights 480kg; Measures 24 x 23 x 28in

\$300,000 - 400,000



552A^w

A LARGE SEYMCHAN METEORITE – COMPLETE SLICE

Seymchan

Iron, Coarse Octahedrite, IIE Pallasite

Magadan, Russia

Acid-etched on both sides, a *Seymchan* slice beautifully displays the coarse octahedrite texture characteristic of this famous meteorite. An important diagnostic tool used in meteorite identification, the process of acid-etching exposes the distinctive geometric patterns known as *Widmanstätten* patterns which reveal the crystalline structure of the meteorite. These patterns are not seen in any metal originating on Earth. *Seymchan* was discovered by a geological survey party near the Hekandue River, in the Magadan District of Russia. A very decorative and intriguing piece, olivine crystals are seen at one edge of this complete slice.

Weighing 23,900 grams; Measuring 23 x 17 x 5/8in

\$30,000 - 40,000



553

553

SIKHOTE-ALIN METEORITE WITH FLOW LINES

Iron, IIAB

Sikhote-Alin Mountains, Maritime Province, Russia

This meteorite specimen boasts many features evidencing the huge explosion that took place on February 10, 1947, high above the Sikhote-Alin mountains of Siberia. The enormous explosion tore the meteorite into thousands of smaller pieces and knocked people off their feet several miles away from the blast. The first explosion was high up in the atmosphere and the meteorites from this initial explosion exhibit regmaglypts (thumbprints) from melting for a longer time in Earth's atmosphere. The secondary explosions occurred much closer to the ground and these meteorites show the ripping force of the explosion, resulting in sharp edges. The present (shrapnel-type) specimen shows signs of the explosive shearing force: sharp edges, distinctive gun metal color, metal flowing over the edges and delicate entry flow lines on all sides of the meteorite. *Measures 2 1/2 x 2 1/2 x 1in; Weighs 516g*

\$1,500 - 1,800



554

554

LARGE SIKHOTE ALIN METEORITE--COMPLETE INDIVIDUAL

II B iron

Fell on February 12, 1947

Maritime Territory, Russia near Vladivostok

This splendid meteorite originates from the largest meteorite shower since the dawn of civilization, which occurred on February 12, 1947 over Siberia's Sikhote-Alin Mountains. The monumental forces exerted on this meteorite as it rocketed through the atmosphere are amply evident. In a rare witnessed fall, Sikhote-Alin blazed through the Earth's atmosphere at a speed of approximately 31,000 miles per hour. It left a trail of smoke and dust that was 20 miles long, which lingered for several hours. Light and sound of the fall were observed for two hundred miles around the point of impact. Here is a covetable specimen from one of the most dramatic witnessed falls of all time. Offered on a custom metal stand. *Weighing approximately 2612 grams and measuring 6 x 3 3/12 x 2 3/4in*

\$8,000 - 10,000

Accompanied by a custom-fitted metal stand.



556



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555

SEYMCHAN METEORITE - COMPLETE POLISHED AND ETCHED SLICE

*Iron Octahedrite, IIE Pallasite
Magadan, Russia*

Discovered in the Magadan District, Russia, the Seymchan Meteorite contains olivine crystals indicating its origin near the mantle/core boundary of a differentiated planetary body. The present complete slice has been polished and etched on both sides. *Weights 219g; Measures 5 1/4 x 3 1/2in*

\$2,000 - 2,800

To be sold without reserve

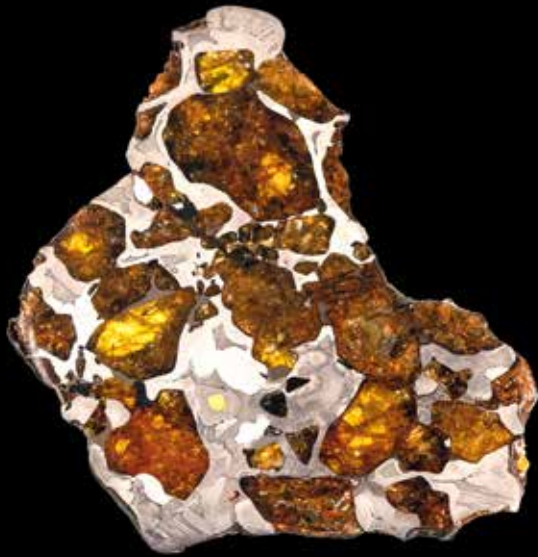
556^w

A RARE IRON METEORITE - SLICE

*Mount Dooling; Iron, IC, Coarse Octahedrite
North Yagorn, Western Australia*

Discovered in 1909, when a 31.5-kilogram mass was found by A.P. Brophy while prospecting for gold in Western Australia, *Mt. Dooling* is a coarse octahedrite iron meteorite. The present example is a very fine specimen of a rare iron meteorite. *Weights 2,996g; Measures 18 3/4 x 7 x 1/4in*

\$15,000 - 20,000



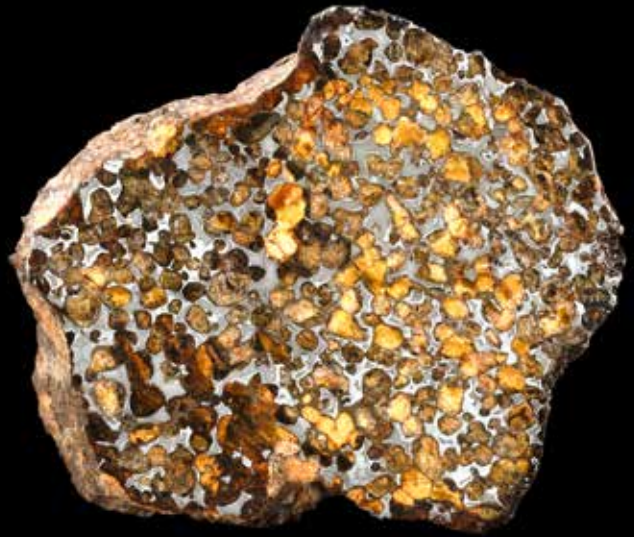
557

557
BEAUTIFUL PALLASITE - COMPLETE SLICE

Imilac
Atacama Desert, Chile

For decades, the Imilac main mass was a centerpiece at the British Museum of Natural History. Found in the Atacama Desert in Chile, the source material has now been dispersed and specimens of this famous meteorite have become quite difficult to obtain. Offered is a very fine complete slice with highly translucent *olivine* crystals. *Weights 21.7g; Measures 2 1/4 x 1 1/2in*

\$600 - 800
To be sold without reserve



558

558
SERICHO METEORITE - END CUT

Pallasite
Sericho, Kenya

Known to camel herders decades before it was officially identified as meteoritic, Sericho was re-discovered in 2016. Within a strewnfield over 45 kilometers long, local villagers continue to surface-collect small specimens. *Weights 1,545g; Measuring 5 x 6 x 1 1/2in*

\$3,000 - 4,000
To be sold without reserve



559



560

559

SEYMCHAN METEORITE - SLICE

Iron Octahedrite, IIE Pallasite

Magadan, Russia

Containing the only gemstones from outer space, pallasites are perhaps the most sought after type of meteorite. Discovered by a geological survey party near the Hekandue River in Magadan District, Russia, the Seymchan Meteorite contains olivine crystals, indicating its origin near the mantle/core boundary of a differentiated planetary body. *Weights 2,796g; Measures 10 x 8 x 1/4in*

\$3,500 - 4,500

To be sold without reserve

560

A RECENT PALLASITE DISCOVERY - SLICE

Pallasite

Sericho, Kenya

In 2016, two brothers searching for their camels discovered several large, dense stones near the village of Habaswein, south of Sericho, Kenya. Officially recognized as meteorites that same year, the masses had been known to camel herders for decades prior to the 2016 discovery: One village elder recounted stories of playing on top of the mysterious stones as a child. To this date, the Sericho strewnfield has been measured at greater than 45 kilometers in length. *Weights 1,078g; Measures 13 1/2 x 8 3/4 x 1 3/8in*

\$6,000 - 8,000



561



562

561
NWA 5974 METEORITE - END CUT WITH POLISHED FACE
NWA 5974
Morocco
NWA 5974 was originally discovered in 2009, with a total known weight of only 28kg. This fine specimen boasts a superb cut and polished face. *Weights 1,382g; Measures 5 1/4 x 5 3/4 x 2 1/2in*

\$2,500 - 3,500

562
CAMPO DEL CIELO METEORITE - ETCHED END CUT
Iron, Coarse Octahedrite
Gran Chaco, Argentina
From the famous *Campo del Cielo* witnessed fall in South America comes this end cut specimen. A superb example of the famous *Campo* is requisite for any serious meteorite collection. The exceptional coarse crystalline *Widmanstätten* structure is exemplified on the cut and etched face of this large end cut specimen. *Weights 6,663 g; Measures 9 3/4 x 8 x 2in*

\$5,000 - 6,000



563

563

STONY METEORITE - END CUT

NWA 1941; Chondrite (L6)

Northern Africa

NWA 1941 was originally discovered in 2003 with a total known weight of 36kg. This end cut of NWA 1941 provides a glimpse of both the exterior and the fascinating interior of a chondrite. *Weights 2,912g; Measures 9 x 7 x 2 1/2in*

\$3,000 - 5,000



564

564

A VERY RECENT METEORITE FALL - FEBRUARY 1, 2019

Viñales, L6 Chondrite

Pinar del Rio, Cuba

One of the most noteworthy meteoritic events in the history of Cuba, a recent witnessed fall occurred on February 1, 2019 in the Province of Pinar del Rio, Cuba, when a meteorite entered the atmosphere with a detonation of 1.5 kilotons, making impact in the area of *Viñales*. The only other witnessed fall in Cuba occurred on June 10, 1994, with only two pieces being recovered. According to a preliminary study, there is a thin *carmelite* outer layer resulting from fusion; there is also a mass composed of minerals from the olivine and pyroxene group, where numerous crystalline aggregates of metallic minerals such as *pyrrhotine*, as well as scarce chromite grains, are present. The present offering was recovered at the base of a yucca plant after the meteorite had struck the plant and displays large black shock veins. The area of the plant branch that was struck has been preserved and is offered with this meteorite specimen. *Weights 181g; Measures 2 1/2 x 1 3/4 x 1 1/2in (2)*

\$7,000 - 9,000



565

565

STONY METEORITE END CUT

Tassedet 004

Agadez, Niger

Tassedet 004's total known weight is 500 kilograms. Here is an example of a stony meteorite that is rarely seen on the market. *Weights 1,409g; Measures 6 1/4 x 5 1/2 x 1 1/2in*

\$3,000 - 4,000



566

566

THE RABBIT, AN AESTHETIC GIBEON METEORITE - COMPLETE INDIVIDUAL

Iron-Nickel, Fine Octahedrite

Kalahari Desert, Namibia, Africa

Gibeon meteorites are in very high demand as they are difficult to find on the market and possess a most beautiful internal crystalline structure when cut and etched. Gibeon meteorites were discovered in the Kalahari Desert of Namibia, Africa from a fall that occurred thousands of years before they were encountered. Offered is a complete individual, which gives a zoomorphic impression of a sitting rabbit. *Weights 1,518g; Measures 5 x 5 1/4 x 1 1/2in*

\$2,500 - 3,500



567

SERICHO METEORITE - END CUT

Pallasite

Sericho, Kenya

Re-discovered by camel-herders in 2016, Sericho was found decades ago by Kenyan villagers. Having produced a strewnfield over 45 kilometers long, the majority of the pieces weighed over 50 kilograms. The meteorites found on the surface show minimal weathering, with portions of fusion crust. Most stones are blocky, exhibiting a few broad regmaglypts. Several flight-oriented specimens were found. Offered is a fine Sericho end cut. *Weights 8,870g; Measuring 10 3/4 x 6 3/4 x 3 3/4in.*

\$30,000 - 40,000



568

568
MUONIONALUSTA METEORITE PEN AND LETTER OPENER

*Iron-Nickel – Fine Octahedrite
Norrbottnen, Sweden*

A fine European craftsmanship collectible pen. The Muonionalusta meteorite pattern displayed on the barrel of the pen shows the rare space crystallization known as Widmanstätten pattern. A coveted decorative space metal at its best, with a phenomenal deep etch. Created from a single block of meteorite by precision turning, resulting in a solid barrel of meteorite, *length 4 7/8 in.* Offered together with a solid letter opener which is also made of Muonionalusta meteorite, *weighing 34.8 grams, length 6 1/4 in.* (2)

\$1,800 - 2,200



569

569
**MUONIONALUSTA METEORITE WATCH WITH MATCHING
CUFFLINKS AND GUITAR PICK**

*Iron-Nickel – Fine Octahedrite
Norrbottnen, Sweden*

Made in Germany, this meteorite watch was precision crafted by hand from the Swedish meteorite Muonionalusta. Both the dial and the case are of meteorite which displays a fine acid etched natural pattern of crystallization and includes a Swiss self-winding movement. On a black ostrich leather band, *diameter of case 39mm*; together with a pair of Muonionalusta meteorite cuff links, mounted in silver, and a Muonionalusta meteorite guitar pick. (4)

\$4,500 - 5,500



570

570

VERY LARGE LIBYAN DESERT GLASS

Libya

This is an outstanding example of the smooth, green tektites found in the sands of the Sahara between Libya and Egypt. Often resembling translucent meteorites, with distinct scallops, and other ablation markings evident on the surface, this is a beautiful complete study of molten glass tumbling in flight. The present specimen is very large for its type and has great thickness, yet at the same time good transparency, particularly at the edges. *Weighing approximately 1295.8 grams (6479.0 carats) and measuring 6 1/2 x 4 1/4 x 3 in*

\$1,200 - 1,800



571

571

LARGE LIBYAN DESERT GLASS SPECIMEN

Oligocene

Sahara Desert, Egypt-Libyan Border

In the raging heat produced by a meteorite impact 28.5 million years ago, a mass of molten desert sand splashed upward and fell over a 4,000-square kilometer area in Western Egypt, creating the beautiful and mysterious material known as Libyan Desert Glass. Ancient Egyptians were clearly aware of the uniqueness of this material, as is evidenced by its presence as a carved scarab in one of King Tut's amulets.

One of the larger specimens of Libyan Desert Glass ever offered at auction, this medium-green colored piece is unusually pristine. The smooth top side displays regmaglypt-like impressions and the bottom, which is somewhat porous, is flat, with sharper edges. The smooth side exhibits small white spheres of cristobalite, a form of quartz diagnostic of meteoric origin (cristobalite only forms at temperatures exceeding 1,470 degrees centigrade.) An added bonus is a natural hole through the specimen, which is larger on the bottom side, narrowing to the top side. *Weighing 1292 grams measuring 6 x 4 x 3 1/4 in*

\$1,000 - 1,500



DÉCOR

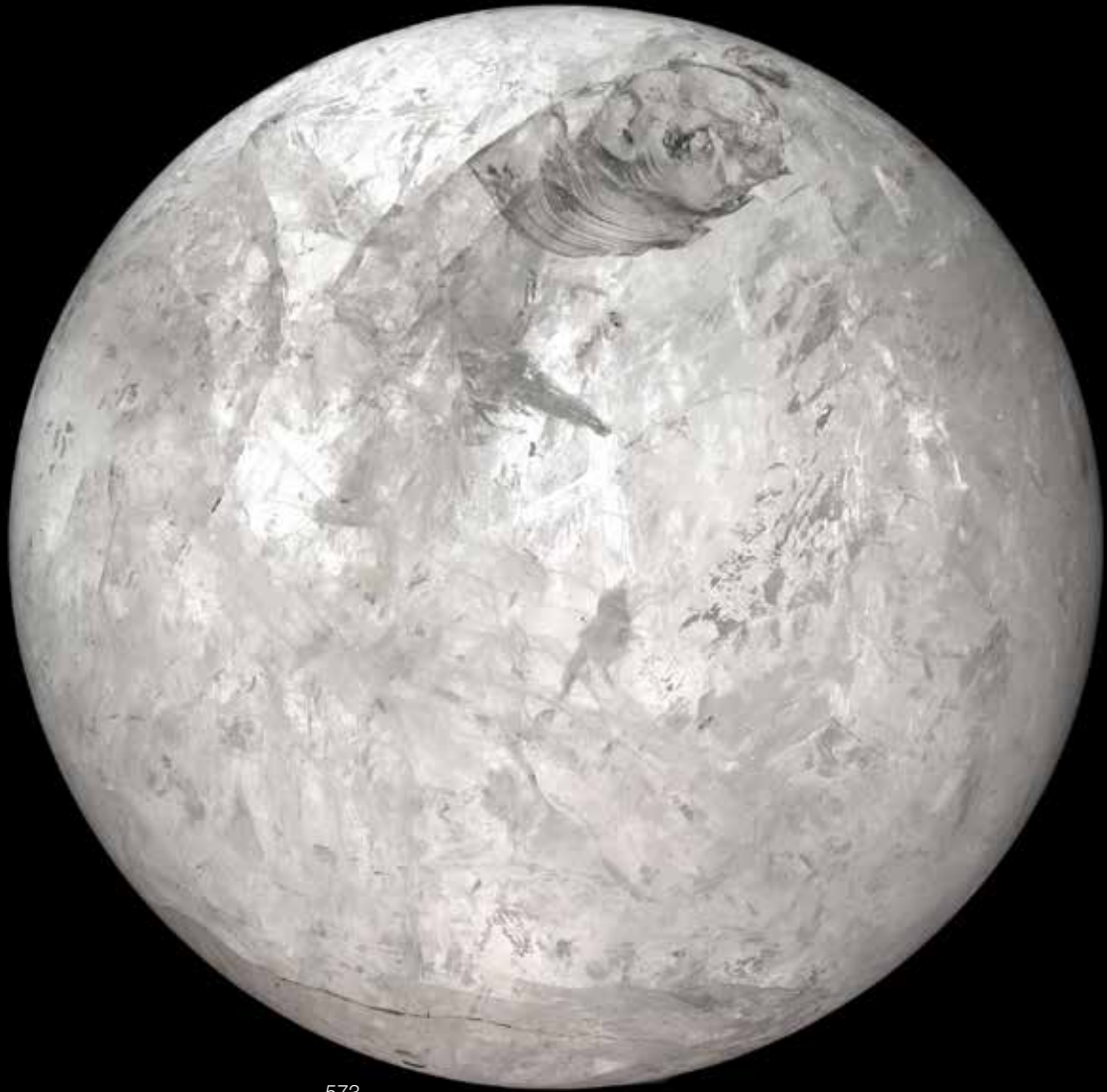
572^w

LARGE SEPTARIAN TABLETOP ON BASE

Eastern Russia

A gorgeous septarian slab, cut and polished from a gigantic septarian nodule, beautifully exhibits the fascinating nodule structure and stunning natural fracture patterns for which the most desirable septarian stone is known. Displaying enticing patterns produced by butterscotch and cream-toned *golden calcite* within a black matrix, with natural textured edges, the slab surmounts a basalt pedestal. A stunning table. *Measuring 52 x 50in and stands 29in tall*

\$40,000 - 50,000



573

573^w

IMPRESSIVE, VERY LARGE QUARTZ SPHERE

Brazil

Expertly crafted and polished from a single massive quartz crystal specimen, this phenomenal crystal sphere boasts exquisite depth of clarity. Upon closer observation, this stunning piece reveals an alluring translucence with a number of pleasing natural inclusions, including a whimsical crimson *apple*. Arising from volcanic rock, quartz crystals have been estimated to form at a rate of approximately one atomic layer per year; therefore, a two-centimeter crystal would grow over a period of ten million years. Quartz is believed to amplify energy while the spherical shape has long been believed to reveal hidden secrets through deep gazing and to provide a balanced energy distribution. The present impressive specimen is arguably the largest quartz sphere of such high quality, and undoubtedly an awe-striking piece in both size and natural beauty. *Circumference measuring 118in; Weighing 2,420lbs Diameter of 37 1/2in*

\$350,000 - 450,000

573A^w

MASSIVE QUARTZ ON BRONZE BASE BY LAWRENCE STOLLAR

Pocket de Venancio

Governador Valadares, Minas Gerais, Brazil

Sculpted Stand by Lawrence Stollar

In February of 2000, excavators near Governador Valadares, Brazil, who were searching for aquamarine crystals, found a thin area of stone while tunneling deep into a mountain. (Rudimentary local methods of searching for crystal-bearing cavities include tapping on the earth's rocky surface to detect hollow chambers beneath, which might yield the amethyst, citrine and aquamarine for which Minas Gerais is famous.) To the excavators' astonishment, upon breaking through the surface, a treasure trove of immense smoky quartz crystals met their eyes. Dubbed the *Pocket de Venancio* crystals - the largest point of which was eight feet in height - the smoky quartz collection represented a remarkable discovery. Thirty-eight pieces were removed from the cave by hand, with the use of chains and ropes, and carried down the mountainside.

Crystals are formed in pockets of gas within solidified volcanic lava. As mineral-bearing water seeps into such pockets, crystalline structures form over eons resulting in the wide variety of crystals seen in nature. The size of the larger *Pocket de Venancio* crystals is a testament to the millennia required by nature to produce such remarkable specimens. The present example, exhibiting completely natural surface texture, displays some amber/citrine color and the interesting surface pattern described as *crocodilian* in Brazil. It represents one of the very few specimens of the original group available on the market. Resting on an artful, custom-fitted bronze stand designed and built by renowned lapidary artist and sculptor Lawrence Stollar.

Crystal specimen measuring 38 x 20 x 18in

Lawrence Stollar is an internationally recognized, award-winning artist whose work is found in distinguished art collections, museums and important art installations worldwide. Mr. Stollar is the designer of the centerpiece of the Eleven Tears Memorial at the former World Trade Center site in New York City.

\$60,000 - 80,000



573A



574



575

574^w

BASALT TABLE WITH STOOLS

China

Functional artistry at its finest is seen in this polished-to-form table and stool set created from richly toned black basalt with tiny, subtly glimmering quartz crystals. Displaying substantial profiles and subtle, irregular hand-shaping, each piece is a sculptural presentation with a useful intention. (5)

Table measuring 29 x 39 x 9in; Height of stools measuring 17 1/2in

\$2,000 - 3,000

575^w

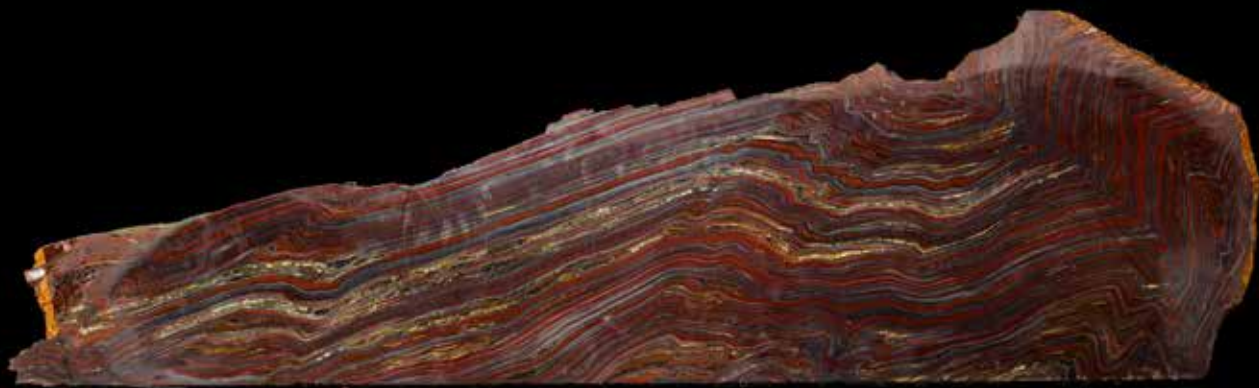
PAIR OF MARBLE BENCHES

China

With all surfaces polished to a fine finish, this pair of marble benches displays a flowing quality of various colors. With naturally shaped marble bases, this pair of attractive benches would be equally at home in an interior or a garden setting. (2)

Weighing 750pounds; Measuring 59 x 17in

\$1,500 - 2,500



576

576^w

LARGE FREE-FORM TIGER IRON MATRIX SLAB

Western Australia

An elegant, free-form long slab of an ancient ornamental gemstone, sometimes called *tiger's eye matrix*, which displays banding of hematite, red jasper and tiger's eye quartz. Because the physical properties of each of the three minerals differ so greatly, only an experienced lapidary has the ability to work this material. The present example is suitable for use as a wall hanging, sofa table or hall table. Measuring 80in x 24 1/4in x 3/4in

\$2,000 - 3,000

577

GROUP OF TEN RED DINOSAUR BONE CABOCHONS

Morrison Formation, Utah

Comprising both ovals in these weights: 10.61 carats, 17.61 carats; 8.58 carats; 16.0 carats; 9.9 carats; 14.22 carats; 14.09 carats; 17.71 carats; together with two cushion shapes, weighing 19.6 carats; 11.0 carats. (10)

\$1,000 - 1,500

To be sold without reserve



577



578

578

PETRIFIED WOOD INTARISA BOX BY KONSTANTIN LIBMAN

Created from flat polished slabs of petrified wood from Washington State (most likely oak), beautifully book-matched at the seams and showing a fine-grained cellular structure of the wood. With a piano-hinged lid opening to reveal a wood-lined interior. *Measuring 5 5/8 x 4 1/2 x 1 3/4 in*

\$2,000 - 3,000

579

FANCY COLORED DINOSAUR BONE CABOCHONS

Morrison Formation, Utah

Comprising the following stones in hues of red, ochre, blue and grey: oval, 11.36 cts; oval, 23.64 cts; oval, 19.31 cts; cushion, 11.97 cts; oval, 8.27 cts; oval, 9.17 cts; oval, 22.91 cts; oval, 16.14 cts; oval 19.57 cts; elongated oval, 44.23 cts. (10)

\$1,000 - 1,500

To be sold without reserve



579



580



580A

580

SEPTARIAN BOOK ENDS

Utah

Gorgeous neutral tones of golden calcite distinguish these functional specimens. They have been fashioned from a naturally occurring septarian nodule found in Southern Utah. *Each measuring 12 3/4 x 6in*

\$800 - 1,000

580A

LARGE STROMATOLITE SPHERE

Cambrian

Bolivia

As one of the oldest of Earth's fossils, stromatolite offers an intriguing peek into the emergence of life on Earth. Created by fossilized layers of cyanobacteria (blue-green algae) and sediment, this piece contains a record of early life dating back over 3 billion years. This fascinating stromatolite sphere displays orbicular patterning and attractive brown tones. *Diameter 8 1/2 in*

\$2,000 - 3,000

MINERALS

581

AMAZING AMETHYST STALACTITE

Uruguay

In a rarely seen occurrence, superb, deep purple amethyst crystals have formed on a stalactite. During its formation, mineral-laden water dripped from the upper portion of a void in volcanic rock, producing a stalactite; heat and pressure, over eons produced the gorgeous crystals. This is a spectacular, unbroken specimen exhibiting perfect condition. *Measures 10in*

\$3,500 - 4,500



581



582^w

LARGE PAIR OF AMETHYST GEODE HALVES

Brazil

Sparkling deep purple amethyst crystals are displayed in this highly decorative geode, which has been sliced in half to form a book-matched pair. The name, amethyst, is derived from the Greek, amethystos, meaning *intoxicate*, as the gemstone was believed to protect its owner from drunkenness. *Measuring 60 1/2 x 17in (2)*

\$1,500 - 2,500



583^w

SUPERB CITRINE POINT

Brazil

This very large citrine crystal with all faces professionally polished is an exceptionally beautiful display specimen. The smoky yellow/brown colors exhibit exceptional clarity. *Weighing 54 pounds; Measuring 12 x 8 x 8in*

\$6,000 - 8,000



584

584^W

BANDED AMETHYST

Brazil

A section from a massive vein of amethyst in a banded formation has been cut into a rectangular form. A lovely display specimen. *Measuring 15 3/8 x 12 x 11 3/8*

\$3,000 - 4,000



585

585^Y

FOSSIL RED HORN CORAL IN MATRIX

Lophophyllidium species

Pennsylvanian (~300 million years)

Morgan Formation, Kamas, Utah

This is a beautiful specimen of Pennsylvanian aged red agatized horn coral from Utah. Several branches of the large thick branches of the red coral protrude from the brown matrix. The ancient coral reefs now lie thousands of feet up in the mountains of Utah. As these corals fossilized, the original organic material was replaced by silica and other minerals producing the brilliant coloration. This horn coral is no longer being actively mined and is infrequently seen in the marketplace. *Measuring 7 1/2 x 7 x 6 in*

\$3,000 - 4,000



586^w

NEPHRITE JADE "MOUNTAIN STONE" WITH WOODEN STAND

Polar Jade Mine, British Columbia, Canada

An excellent example of nephrite, this specimen originates from the sought-after "Polar Jade Mine", located in the extreme northern part of British Columbia in the Provencher Valley. With natural boulder edges to all sides, this highly aesthetic specimen displays the characteristic brilliant emerald green for which the Polar Mine is known. The slab also has some dark veining, balanced with translucent white areas, revealed by its excellent polish on both sides. The wooden base is well suited to making this an elegant contemplation stone. *Measuring 29 x 22 x 5 1/2 inches overall*

\$4,000 - 6,000

Offered on a custom-fitted wooden display stand



587

587

JASPER SCHOLAR'S ROCK ON STAND

China

Rich red jasper with patterns of green veining create a fascinating focal point and object of contemplation in this scholar's rock.

Measuring 13 ¼ x 13 ½ x 7in

\$1,000 - 1,500

Offered with a custom-fitted wood base.



588

588

**LARGE SANDSTONE CONCRETION--
"GOGOTTE"**

Oligocene

30 million years old

Fontainebleau, France

A gogotte is a millions-of-years old naturally shaped mineral rarity consisting of tiny quartz fragments held together by calcium carbonate. A mineralogical work of art, each gogotte has a unique and otherworldly shape, which opens the imagination to infinite interpretations. Fontainebleau's sand is famous for its flawlessness and delicacy since the 17th century, and gives the gogotte its porcelain appearance. Gogotte concretions can be found in Natural History museums around the world. *Measuring 12 x 10 x 4 1/2 in*

\$1,500 - 2,000



589^w

**PAIR OF BOOK-MATCHED SCHOLAR'S
ROCKS ON STANDS**

China

This fine decorative pair of scholar's rocks started life as consecutive, or near-consecutive slabs cut from the same boulder. The highly colorful patterns create a landscape in themselves and present an object of contemplation. *Dimensions inclusive of the wooden stand: 27 1/2 x 30in x 11 1/2 in*

\$5,000 - 7,000

END OF SALE

OFFSITE SOLD PROPERTY STORAGE INFORMATION

Please note that all lots listed at the beginning of our printed catalog, if not removed immediately after the sale, will be transferred to a nearby storage facility. For the convenience of the successful bidder of one or more of these lots, all purchased lots will be transferred to our offsite storage together. Please read the Conditions of Sale regarding the removal of sold lots.

Bonhams' storage and logistics partner is Box, Pack and Ship LLC, a well-known organization that specializes in crating, packaging and shipping.

Our storage and logistics partnership provides several beneficial services. The first being 5 days of free storage.

- During this auction, clients will be expected to pick up all property from Bonhams on the day of the sale.
- All items listed at the beginning of our printed catalog, along with all other items purchased, if not removed immediately after the sale, will be transferred to Box, Pack and Ship LLC warehouse. With an appointment made 24 hours in advance, clients can pick up their property at 3800 S. Main Street, Los Angeles, CA 90037.
- Box, Pack and Ship LLC will charge an uplift fee to transport your items to their warehouse. Small items that can be handled easily by one person will be charged \$50. Larger items that can still be handled by one person will be charged \$85. Large items that require two people to handle will be charged \$100. Charges will be payable directly to Box, Pack and Ship LLC. Should you choose to have Box, Pack and Ship LLC ship or deliver your property, this uplift fee will be waived.
- Clients will have 5 days of free storage to retrieve their property or make arrangements with Box, Pack and Ship LLC to pack and ship their property. Storage fees will begin to accrue on the 6th day of storage.
- Retrieval from the offsite warehouse is by appointment only. Clients must call 24 hours in advance. Clients can utilize the delivery services offered by Box, Pack and Ship LLC or clients may make their own arrangements. Please call +1 (800) 674-4705.
- Box, Pack and Ship LLC is available to ship internationally. They offer importing and exporting services. Clients can select either airfreight or ocean cargo delivery options, which range from door-to-port, door-to-airport with door-to-door service also available. Clients can ship one item, co-load or container load at a discounted rate through Box, Pack and Ship LLC. Please call +1 (800) 674-4705 for more information.
- All purchases not designated for offsite storage will remain onsite at Bonhams for a period of 21 days beginning the date of the auction. During this 21 day period, clients may remove such property themselves, make arrangements with the Bonhams packaging and shipping department or provide their own shipper for removal of all property. If a client does not retrieve his/her property or finalize shipping arrangements within 21 days, the purchases will be removed to the offsite storage facility of Box, Pack and Ship LLC. Again, uplift charges for packing and transport from our gallery to Box, Pack and Ship LLC will be charged by Box, Pack and Ship LLC.
- Payment of the hammer price, premium and any applicable sales taxes must be made directly to Bonhams prior to the release of property. Any removal, storage or other fees due to Box, Pack and Ship LLC should be made directly to Box, Pack and Ship LLC.
- Change of shipping address must be authorized by Bonhams Revenue Manager, Martin Romero, before Box, Pack and Ship LLC will be permitted to re-route your purchases.

LOTS TO BE REMOVED TO STORAGE:

400	462	511
401	465	513
403	466	514
406	467	515
408	468	519
409	469	529
410	470	532
411	473	533
412	475	536
413	478	551
414	479	552
415	480	552A
416	481	556
417	483	572
418	484	573
419	491	573A
420	495	574
421	496	575
452	497	576
453	502	582
456	503	582
457	505	583
458	506	584
458A	507	586
459	508	587
460	509	589
461	510	

CONDITIONS OF SALE

The following Conditions of Sale, as amended by any published or posted notices or verbal announcements during the sale, constitute the entire terms and conditions on which property listed in the catalog shall be offered for sale or sold by Bonhams & Butterfields Auctioneers Corp. and any consignor of such property for whom we act as agent. If live online bidding is available for the subject auction, additional terms and conditions of sale relating to online bidding will apply; see www.bonhams.com/WebTerms for the supplemental terms. As used herein, "Bonhams," "we" and "us" refer to Bonhams & Butterfields Auctioneers Corp.

1. As used herein, the term "bid price" means the price at which a lot is successfully knocked down to the purchaser. The term "purchase price" means the aggregate of (a) the bid price, (b) a PREMIUM retained by us and payable by the purchaser EQUAL TO 27.5% OF THE FIRST \$3,000 OF THE BID PRICE, 25% OF THE AMOUNT OF THE BID PRICE ABOVE \$3,000 UP TO AND INCLUDING \$400,000, 20% OF THE AMOUNT OF THE BID PRICE ABOVE \$400,000 UP TO AND INCLUDING \$4,000,000, AND 13.9% OF THE AMOUNT OF THE BID PRICE OVER \$4,000,000, and (c) unless the purchaser is exempt by law from the payment thereof, any Alabama, Arizona, California, Colorado, Connecticut, Florida, Georgia, Hawaii, Idaho, Illinois, Iowa, Indiana, Kentucky, Louisiana, Maine, Massachusetts, Michigan, Minnesota, Nevada, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, Texas, Utah, Virginia, Washington, D.C., Washington state, Wisconsin, Wyoming or other state or local sales tax (or compensating use tax) and other applicable taxes. With regard to New York sales tax, please refer to the "Sales and Use Tax" section of these Conditions of Sale.

2. On the fall of the auctioneer's hammer, the highest bidder shall have purchased the offered lot in accordance and subject to compliance with all of the conditions set forth herein and (a) assumes full risk and responsibility therefor, (b) if requested will sign a confirmation of purchase, and (c) will pay the purchase price in full or such part as we may require for all lots purchased. No lot may be transferred. Any person placing a bid as agent on behalf of another (whether or not such person has disclosed that fact or the identity of the principal) may be jointly and severally liable with the principal under any contract resulting from the acceptance of a bid.

Unless otherwise agreed, payment in good funds is due and payable within five (5) business days following the auction sale. Whenever the purchaser pays only a part of the total purchase price for one or more lots purchased, we may apply such payments, in our sole discretion, to the lot or lots we choose. Payment will not be deemed made in full until we have collected good funds for all amounts due.

Payment for purchases may be made in or by (a) cash, (b) cashier's check or money order, (c) personal check with approved credit drawn on a U.S. bank, (d) wire transfer or other immediate bank transfer, or (e) Visa, MasterCard, American Express or Discover credit, charge or debit card. A processing fee will be assessed on any returned checks. Please note that the amount of cash notes and cash equivalents that can be accepted from a given purchaser may be limited.

To the fullest extent permitted by applicable law: The purchaser grants us a security interest in the property, and we may retain as collateral security for the purchaser's obligations to us, any property and all monies held or received by us for the account of the purchaser, in our possession. We also retain all rights of a secured party under the California Commercial Code. If the foregoing conditions or any other applicable conditions herein are not complied with, in addition to all other remedies available to us and the consignor by law, we may at our election: (a) hold the purchaser liable for the full purchase price and

late charges, collection costs, attorneys' fees and costs, expenses and incidental damages incurred by us or the consignor arising out of the purchaser's breach; (b) cancel the sale, retaining as liquidated damages all payments made by the purchaser; and/or (c) cancel the sale and/or resell the purchased property, at public auction and/or by private sale, and in such event the purchaser shall be liable for the payment of all consequential damages, including any deficiencies or monetary losses, and all costs and expenses of such sale or sales, our commissions at our standard rates, all other charges due hereunder, all late charges, collection costs, attorneys' fees and costs, expenses and incidental damages. In addition, where two or more amounts are owed in respect of different transactions by the purchaser to us, to Bonhams 1793 Limited and/or to any of our other affiliates, subsidiaries or parent companies worldwide within the Bonhams Group, we reserve the right to apply any monies paid in respect of a transaction to discharge any amount owed by the purchaser. If all fees, commissions, premiums, bid prices and other sums due to us from the purchaser are not paid promptly as provided in these Conditions of Sale, we reserve the right to impose a finance charge equal to 1.5% per month (or, if lower, the maximum nonusurious rate of interest permitted by applicable law), on all amounts due to us beginning on the 31st day following the sale until payment is received, in addition to other remedies available to us by law.

3. We reserve the right to withdraw any property and to divide and combine lots at any time before such property's auction. Unless otherwise announced by the auctioneer at the time of sale, all bids are per lot as numbered in the catalog and no lots shall be divided or combined for sale.

4. We reserve the right to reject a bid from any bidder, to split any bidding increment, and to advance the bidding in any manner the auctioneer may decide. In the event of any dispute between bidders, or in the event the auctioneer doubts the validity of any bid, the auctioneer shall have sole and final discretion either to determine the successful bidder or to re-offer and resell the article in dispute. If any dispute arises after the sale, our sales records shall be conclusive in all respects.

5. If we are prevented by fire, theft or any other reason whatsoever from delivering any property to the purchaser or a sale otherwise cannot be completed, our liability shall be limited to the sum actually paid therefor by the purchaser and shall in no event include any compensatory, incidental or consequential damages.

6. If a lot is offered subject to a reserve, we may implement such reserve by bidding on behalf of the consignor, whether by opening bidding or continuing bidding in response to other bidders until reaching the reserve. If we have an interest in an offered lot and the proceeds therefrom other than our commissions, we may bid therefor to protect such interest. **CONSIGNORS ARE NOT ALLOWED TO BID ON THEIR OWN ITEMS.**

7. All statements contained in the catalog or in any bill of sale, condition report, invoice or elsewhere as to authorship, period, culture, source, origin, measurement, quality, rarity, provenance, importance, exhibition and literature of historical relevance, or physical condition **ARE QUALIFIED STATEMENTS OF OPINION AND NOT REPRESENTATIONS OR WARRANTIES.** No employee or agent of Bonhams is authorized to make on our behalf or on that of the consignor any representation or warranty, oral or written, with respect to any property.

8. All purchased property shall be removed from the premises at which the sale is conducted by the date(s) and time(s) set forth in the "Buyer's Guide" portion of this catalog. Property designated with a "W" and associated purchased lots, if not removed promptly following sale, will be transferred to an offsite warehouse at the purchaser's

risk and expense, as set forth in more detail in the "Buyer's Guide." Purchased property that is permitted to remain onsite at Bonhams' facility should be removed at the purchaser's expense not later than 5:00 p.m. Pacific Time five (5) business days following the date of the sale. If not so removed, a storage fee of \$5.00 per lot per day will be payable to us by the purchaser beginning at the close of the 21st day following the sale, and we may thereafter transfer such property to an offsite warehouse at the purchaser's risk and expense. Accounts must be settled in full before property will be released. Packing and handling of purchased lots are the responsibility of the purchaser. Bonhams can provide packing and shipping services for certain items as noted in the "Buyer's Guide" section of the catalog.

9. The copyright in the text of the catalog and the photographs, digital images and illustrations of lots in the catalog belong to Bonhams or its licensors. You will not reproduce or permit anyone else to reproduce such text, photographs, digital images or illustrations without our prior written consent.

10. These Conditions of Sale shall bind the successors and assigns of all bidders and purchasers and inure to the benefit of our successors and assigns. No waiver, amendment or modification of the terms hereof (other than posted notices or oral announcements during the sale) shall bind us unless specifically stated in writing and signed by us. If any part of these Conditions of Sale is for any reason invalid or unenforceable, the rest shall remain valid and enforceable.

11. These Conditions of Sale and the purchaser's and our respective rights and obligations hereunder are governed by the laws of the State of California. By bidding at an auction, each purchaser and bidder agrees to be bound by these Conditions of Sale. Any dispute, controversy or claim arising out of or relating to this agreement, or the breach, termination or validity thereof, brought by or against Bonhams (but not including claims brought against the consignor by the purchaser of lots consigned hereunder) shall be resolved by the procedures set forth below.

MEDIATION AND ARBITRATION PROCEDURES

(a) Within 30 days of written notice that there is a dispute, the parties or their authorized and empowered representatives shall meet by telephone and/or in person to mediate their differences. If the parties agree, a mutually acceptable mediator shall be selected and the parties will equally share such mediator's fees. The mediator shall be a retired judge or an attorney familiar with commercial law and trained in or qualified by experience in handling mediations. Any communications made during the mediation process shall not be admissible in any subsequent arbitration, mediation or judicial proceeding. All proceedings and any resolutions thereof shall be confidential, and the terms governing arbitration set forth in paragraph (c) below shall govern.

(b) If mediation does not resolve all disputes between the parties, or in any event no longer than 60 days after receipt of the written notice of dispute referred to above, the parties shall submit the dispute for binding arbitration before a single neutral arbitrator. Such arbitrator shall be a retired judge or an attorney familiar with commercial law and trained in or qualified by experience in handling arbitrations. Such arbitrator shall make all appropriate disclosures required by law. The arbitrator shall be drawn from a panel of a national arbitration service agreed to by the parties, and shall be selected as follows: (i) If the national arbitration service has specific rules or procedures, those rules or procedures shall be followed; (ii) If the national arbitration service does not have rules or procedures for the selection of an arbitrator, the arbitrator shall be an individual jointly agreed to by the parties. If the parties cannot agree on a national arbitration service, the arbitration shall be

CONDITIONS OF SALE - CONTINUED

conducted by the American Arbitration Association, and the arbitrator shall be selected in accordance with the Rules of the American Arbitration Association. The arbitrator's award shall be in writing and shall set forth findings of fact and legal conclusions.

(c) Unless otherwise agreed to by the parties or provided by the published rules of the national arbitration service:

(i) the arbitration shall occur within 60 days following the selection of the arbitrator;

(ii) the arbitration shall be conducted in the designated location, as follows: (A) in any case in which the subject auction by Bonhams took place or was scheduled to take place in the State of New York or Connecticut or the Commonwealth of Massachusetts, the arbitration shall take place in New York City, New York; (B) in all other cases, the arbitration shall take place in the city of San Francisco, California; and

(iii) discovery and the procedure for the arbitration shall be as follows:

(A) All arbitration proceedings shall be confidential;

(B) The parties shall submit written briefs to the arbitrator no later than 15 days before the arbitration commences;

(C) Discovery, if any, shall be limited as follows: (I) Requests for no more than 10 categories of documents, to be provided to the requesting party within 14 days of written request therefor; (II) No more than two (2) depositions per party, provided however, the deposition(s) are to be completed within one (1) day; (III) Compliance with the above shall be enforced by the arbitrator in accordance with California law;

(D) Each party shall have no longer than eight (8) hours to present its position. The entire hearing before the arbitrator shall not take longer than three (3) consecutive days;

(E) The award shall be made in writing no more than 30 days following the end of the proceeding. Judgment upon the award rendered by the arbitrator may be entered by any court having jurisdiction thereof.

To the fullest extent permitted by law, and except as required by applicable arbitration rules, each party shall bear its own attorneys' fees and costs in connection with the proceedings and shall share equally the fees and expenses of the arbitrator.

LIMITED RIGHT OF RESCISSION

If within one (1) year from the date of sale, the original purchaser (a) gives written notice to us alleging that the identification of Authorship (as defined below) of such lot as set forth in the **BOLD TYPE** heading of the catalog description of such lot (as amended by any saleroom notices or verbal announcements during the sale) is not substantially correct based on a fair reading of the catalog (including the terms of any glossary contained therein), and (b) within 10 days after such notice returns the lot to us in the same condition as at the time of sale, and (c) establishes the allegation in the notice to our satisfaction (including by providing one or more written opinions by recognized experts in the field, as we may reasonably require), then the sale of such lot will be rescinded and, unless we have already paid to the consignor monies owed him in connection with the sale, the original purchase price will be refunded.

If, prior to receiving such notice from the original purchaser alleging such defect, we have paid the consignor monies owed him in connection with the sale, we shall pay the original purchaser the amount of our commissions, any other sale proceeds to which we are entitled and applicable taxes received from the purchaser on the sale and make demand on the consignor to pay the balance of the original purchase price to the original purchaser. Should the consignor fail to pay such amount promptly, we may disclose the identity of the consignor and assign to the original purchaser our rights against the consignor with respect to the lot the sale of which is sought to be rescinded. Upon such disclosure and assignment, any liability of Bonhams as consignor's agent with respect to said lot shall automatically terminate.

The foregoing limited right of rescission is available to the original purchaser only and may not be assigned to or relied upon by any subsequent transferee of the property sold. The purchaser hereby accepts the benefit of the consignor's warranty of title and other representations and warranties made by the consignor for the purchaser's benefit. Nothing in this section shall be construed as an admission by us of any representation of fact, express or implied, obligation or responsibility with respect to any lot. **THE PURCHASER'S SOLE AND EXCLUSIVE**

REMEDY AGAINST BONHAMS FOR ANY REASON WHATSOEVER IS THE LIMITED RIGHT OF RESCISSION DESCRIBED IN THIS SECTION.

"Authorship" means only the identity of the creator, the period, culture and source or origin of the lot, as the case may be, as set forth in the **BOLD TYPE** heading of the print catalog entry. The right of rescission does not extend to: (a) works of art executed before 1870 (unless these works are determined to be counterfeits created since 1870), as this is a matter of current scholarly opinion which can change; (b) titles, descriptions, or other identification of offered lots, which information normally appears in lower case type below the **BOLD TYPE** heading identifying the Authorship; (c) Authorship of any lot where it was specifically mentioned that there exists a conflict of specialist or scholarly opinion regarding the Authorship of the lot at the time of sale; (d) Authorship of any lot which as of the date of sale was in accordance with the then generally-accepted opinion of scholars and specialists regarding the same; or (e) the identification of periods or dates of creation in catalog descriptions which may be proven inaccurate by means of scientific processes that are not generally accepted for use until after publication of the catalog in which the property is offered or that were unreasonably expensive or impractical to use at the time of such publication.

LIMITATION OF LIABILITY

EXCEPT AS EXPRESSLY PROVIDED ABOVE, ALL PROPERTY IS SOLD "AS IS." NEITHER BONHAMS NOR THE CONSIGNOR MAKES ANY REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, AS TO THE MERCHANTABILITY, FITNESS OR CONDITION OF THE PROPERTY OR AS TO THE CORRECTNESS OF DESCRIPTION, GENUINENESS, ATTRIBUTION, PROVENANCE OR PERIOD OF THE PROPERTY OR AS TO WHETHER THE PURCHASER ACQUIRES ANY COPYRIGHTS OR OTHER INTELLECTUAL PROPERTY RIGHTS IN LOTS SOLD OR AS TO WHETHER A WORK OF ART IS SUBJECT TO THE ARTIST'S MORAL RIGHTS OR OTHER RESIDUAL RIGHTS OF THE ARTIST. THE PURCHASER EXPRESSLY ACKNOWLEDGES AND AGREES THAT IN NO EVENT SHALL BONHAMS BE LIABLE FOR ANY DAMAGES INCLUDING, WITHOUT LIMITATION, ANY COMPENSATORY, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

SELLER'S GUIDE

SELLING AT AUCTION

Bonhams can help you every step of the way when you are ready to sell art, antiques and collectible items at auction. Our regional offices and representatives throughout the US are available to service all of your needs. Should you have any further questions, please visit our website at www.bonhams.com/us for more information or call our Client Services Department at +1 (323) 850 7500.

AUCTION ESTIMATES

The first step in the auction process is to determine the auction value of your property. Bonhams' world-renowned specialists will evaluate your special items at no charge and in complete confidence. You can obtain an auction estimate in many ways:

- Attend one of our Auction Evaluation Events held regularly at our galleries and in other major metropolitan areas. The updated schedule for Bonhams Auction Evaluation Events is available at www.bonhams.com/us.
- Call our Client Services Department to schedule a private appointment at one of our galleries. If you have a large collection, our specialists can travel, by appointment, to evaluate your property on site.
- Send clear photographs to us of each individual item, including item dimensions and other pertinent information with each picture. Photos should be sent to Bonhams' address in envelopes marked

as "photo auction estimate". Alternatively, you can submit your request using our online form at www.bonhams.com/us. Digital images may be attached to the form. Please limit your images to no more than five (5) per item.

CONSIGNING YOUR PROPERTY

After you receive an estimate, you may consign your property to us for sale in the next appropriate auction. Our staff assists you throughout the process, arranging transportation of your items to our galleries (at the consignor's expense), providing a detailed inventory of your consignment, and reporting the prices realized for each lot. We provide secure storage for your property in our warehouses and all items are insured throughout the auction process. You will receive payment for your property approximately 35 days after completion of sale.

Sales commissions vary with the potential auction value of the property and the particular auction in which the property is offered. Please call us for commission rates.

PROFESSIONAL APPRAISAL SERVICES

Bonhams' specialists conduct insurance and fair market value appraisals for private collectors, corporations, museums, fiduciaries and government entities on a daily basis. Insurance appraisals, used for insurance purposes, reflect the cost of replacing property in today's retail market. Fair market value appraisals are used for estate,

tax and family division purposes and reflect prices paid by a willing buyer to a willing seller.

When we conduct a private appraisal, our specialists will prepare a thorough inventory listing of all your appraised property by category. Valuations, complete descriptions and locations of items are included in the documentation.

Appraisal fees vary according to the nature of the collection, the amount of work involved, the travel distance, and whether the property is subsequently consigned for auction.

Our appraisers are available to help you anywhere and at any time. Please call our Client Services Department to schedule an appraisal.

ESTATE SERVICES

Since 1865, Bonhams has been serving the needs of fiduciaries – lawyers, trust officers, accountants and executors – in the disposition of large and small estates. Our services are specially designed to aid in the efficient appraisal and disposition of fine art, antiques, jewelry, and collectibles. We offer a full range of estate services, ranging from flexible financial terms to tailored accounting for heirs and their agents to world-class marketing and sales support.

For more information or to obtain a detailed Trust and Estates package, please visit our website at www.bonhams.com/us or contact our Client Services Department.

BUYER'S GUIDE

BIDDING & BUYING AT AUCTION

Whether you are an experienced bidder or an enthusiastic novice, auctions provide a stimulating atmosphere unlike any other. Bonhams previews and sales are free and open to the public. As you will find in these directions, bidding and buying at auction is easy and exciting. Should you have any further questions, please visit our website at www.bonhams.com or call our Client Services Department at +1 (323) 850 7500.

Catalogs

Before each auction we publish illustrated catalogs that include dates and times for previews and auctions. Our catalogs also provide descriptions and estimated values for each "lot." A lot may refer to a single item or to a group of items auctioned together. We offer our catalogs by subscription or by single copy. For information on subscribing to our catalogs, you may refer to the subscription form in this catalog, call our Client Services Department, or visit our website at www.bonhams.com/us.

Previews

Auction previews are your chance to inspect each lot prior to the auction. We encourage you to look closely and examine each object on which you may want to bid so that you will know as much as possible about it. Items are sold "as is" and with all faults; illustrations in our catalogs, website and other materials are provided for identification only. At the previews, our staff is always available to answer your questions and guide you through the auction process. Condition reports may be available upon request.

Estimates

Bonhams catalogs include estimates for each lot, exclusive of buyer's premium and tax. The estimates are provided as an approximate guide to current market value and should not be interpreted as a representation or prediction of actual selling prices. They are determined well in advance of a sale and are subject to revision. Please contact us should you have any questions about value estimates.

Reserves

All lots in a catalog are subject to a reserve unless otherwise indicated. The reserve is the minimum price that the seller is willing to accept for a lot. This amount is confidential and does not exceed the low estimated value.

BIDDING AT AUCTION

At Bonhams, you can bid in many ways: in person, via absentee bid, over the phone, or via Bonhams' online bidding facility. Absentee bids can be submitted in person, online, via fax or via email.

A valid Bonhams client account is required to participate in bidding activity. You can obtain registration information online, at the reception desk or by calling our Client Services Department.

By bidding at auction, whether in person or by agent, by absentee bid, telephone, online or other means, the buyer or bidder agrees to be bound by the Conditions of Sale.

Lots are auctioned in consecutive numerical order as they appear in the catalog. Bidding normally begins below the low estimate. The auctioneer will accept bids from interested parties present in the saleroom, from telephone bidders, and from absentee bidders who have left written bids in advance of the sale. The auctioneer may also execute bids on behalf of the consignor up to the amount of the reserve, but never above it.

We assume no responsibility for failure to execute bids for any reason whatsoever.

In Person

If you are planning to bid at auction, you will need to register at the reception desk in order to receive a numbered bid card. To place a bid, hold up your card so that the auctioneer can clearly see it. Decide on the maximum amount that you wish to pay, exclusive of buyer's premium and tax, and continue bidding until your bid prevails or you reach your limit. If you are the successful bidder on a lot, the auctioneer will acknowledge your paddle number and bid amount.

Absentee Bids

As a service to those wishing to place bids, we may at our discretion accept bids without charge in advance of sale by telephone, by facsimile or in writing on bidding forms available from us. "Buy" bids will not be accepted; all bids must state the highest bid price the bidder is willing to pay. Our auction staff will try to bid just as you would, with the goal of obtaining the

item at the lowest bid price possible. In the event identical bids are submitted, the earliest bid submitted will take precedence. Absentee bids shall be executed in competition with other absentee bids, any applicable reserve, and bids from other auction participants. A friend or agent may place bids on your behalf, provided that we have received your written authorization prior to the sale. Absentee bid forms are available in our catalogs, online at www.bonhams.com/us, and at our San Francisco, Los Angeles and New York galleries.

By Telephone

Under special circumstances, we can arrange for you to bid by telephone. To arrange for a telephone bid, please contact our Client Services Department a minimum of 24 hours prior to the sale.

Online

Web users may place absentee bids online from anywhere in the world. To bid online, please visit our website at www.bonhams.com/us.

We are pleased to make our live online bidding facility available to bidders in this sale.

Additional terms and conditions of sale relating to online bidding will apply. Please see www.bonhams.com/25736 or contact the Client Services Department to obtain information and learn how you can register and bid online in this sale.

Bid Increments

Bonhams generally uses the following increment multiples as bidding progresses:

\$50-200	by \$10s
\$200-500	by \$20/50/80s
\$500-1,000	by \$50s
\$1,000-2,000	by \$100s
\$2,000-5,000	by \$200/500/800s
\$5,000-10,000	by \$500s
\$10,000-20,000	by \$1,000s
\$20,000-50,000	by \$2,000/5,000/8,000s
\$50,000-100,000	by \$5,000s
\$100,000-200,000	by \$10,000s
above \$200,000	at auctioneer's discretion

The auctioneer may split or reject any bid at any time at his or her discretion as outlined in the Conditions of Sale.

Currency Converter

Solely for the convenience of bidders, a currency converter may be provided at Bonhams sales. The rates quoted for conversion of other currencies to U.S. Dollars are indications only and should not be relied upon by a bidder, and neither Bonhams nor its agents shall be responsible for any errors or omissions in the operation or accuracy of the currency converter.

Buyer's Premium

A buyer's premium is added to the winning bid price of each individual lot purchased, at the rates set forth in the Conditions of Sale. The winning bid price plus the premium constitute the purchase price for the lot. Applicable sales taxes are computed based on this figure, and the total becomes your final purchase price.

Unless specifically illustrated and noted, fine art frames are not included in the estimate or purchase price. Bonhams accepts no liability for damage or loss to frames during storage or shipment.

All sales are final and subject to the Conditions of Sale found in our catalogs, on our website, and available at the reception desk.

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All buyers are asked to pay and pick up by 3pm on the business day following the auction. Payment may be made to Bonhams by cash, checks drawn on a U.S. bank, money order, wire transfer, or by Visa, MasterCard, American Express or Discover credit or charge card or debit card. All items must be paid for within 5 business days of the sale. Please note that payment by personal or business check may result in property not being released until purchase funds clear our bank.

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Clients will be expected to pick up all property from Bonhams by 5:00PM on Wednesday, 22 May 2019.

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If this sale previews in multiple cities, please see the title page for details regarding final location of property for collection.

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10022
+1 (212) 644 9001
+1 (212) 644 9007 fax

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Suite 2001
One Pacific Place
88 Queensway
Admiralty
Hong Kong
+852 2918 4321
+852 2918 4320 fax

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Montpelier Street London
SW7 1HH
+44 20 7393 3900
+44 20 7393 3905 fax

Offices and Associated Companies

AFRICA

Nigeria

Neil Coventry
+234 (0)8110 033 792
+27 (0)7611 20171
neil.coventry@bonhams.com

South Africa - Johannesburg

Penny Culverwell
+27 (0)71 342 2670
penny.culverwell@bonhams.com

AUSTRALIA

Sydney

97-99 Queen Street,
Woollahra, NSW 2025
Australia
+61 (0) 2 8412 2222
+61 (0) 2 9475 4110 fax
info.aus@bonhams.com

Melbourne

Como House
Como Avenue
South Yarra
Melbourne VIC 3141
Australia
+61 (0) 3 8640 4088
+61 (0) 2 9475 4110 fax
info.aus@bonhams.com

ASIA

Beijing

Jessica Zhang
Unit S102A, Beijing
Lufthansa Center,
50 Liangmaqiao Road,
Chaoyang District,
Beijing 100125, China
+86 (0) 10 8424 3188
beijing@bonhams.com

Singapore

Bernadette Rankine
11th Floor, Wisma Atria
435 Orchard Road
Singapore 238877
+65 (0) 6701 8038
+65 (0) 6701 8001 fax
bernadette.rankine@bonhams.com

Taiwan

37th Floor, Taipei 101
Tower
No. 7 Xinyi Road,
Section 5
Taipei, 100
+886 2 8758 2898
+886 2 8758 2897 fax
taiwan@bonhams.com

EUROPE

Austria

Thomas Kamm
+49 (0) 89 2420 5812
austria@bonhams.com

Belgium

Boulevard
Saint-Michel 101
1040 Brussels
+32 (0) 2 736 5076
belgium@bonhams.com

France

4 rue de la Paix
75002 Paris
+33 (0) 1 42 61 10 10
paris@bonhams.com

Germany - Cologne

Katharina Schmid
+49 (0) 221 9865 3419
+49 (0) 157 9234 6717
cologne@bonhams.com

Germany - Hamburg

Marie Becker Lingenthal
+49 (0) 17 4236 0022
hamburg@bonhams.com

Germany - Munich

Maximilianstrasse 52
80538 Munich
+49 (0) 89 2420 5812
munich@bonhams.com

Germany - Stuttgart

Neue Brücke 2
New Bridge Offices
70173 Stuttgart
+49 (0) 711 2195 2640
+49 (0) 157 9234 6717
stuttgart@bonhams.com

Greece

7 Neofytou Vamva
Street
Athens 10674
+30 (0) 210 3636 404
athens@bonhams.com

Ireland

31 Molesworth Street
Dublin 2
+353 (0) 1 602 0990
ireland@bonhams.com

Italy - Milan

Via Boccaccio 22
20123 Milano
+39 0 2 4953 9020
milan@bonhams.com

Italy - Rome

Via Sicilia 50
00187 Roma
+39 06 485 900
rome@bonhams.com

The Netherlands

De Lairessestraat 154
1075 HL Amsterdam
+31 (0) 20 67 09 701
amsterdam@bonhams.com

Portugal

Rua Bartolomeu Dias
nº160. 1º
Belem
1400-031 Lisbon
+351 218 293 291
portugal@bonhams.com

Spain - Barcelona

Teresa Ybarra
+34 930 156 686
+34 680 347 606
barcelona@bonhams.com

Spain - Madrid

Núñez de Balboa no
4-1C
28001 Madrid
+34 915 78 17 27
madrid@bonhams.com

Switzerland - Geneva

Rue Etienne-Dumont 10
1204 Geneva
+41 (0) 22 300 3160
geneva@bonhams.com

Switzerland - Zurich

Andrea Bodmer
Dreikönigstrasse 31a
8002 Zürich
+41 44 281 9535
zurich@bonhams.com

NORTH AMERICA

USA

Representatives:
Arizona
Terri Adrian-Hardy
+1 (602) 859 1843
arizona@bonhams.com

California Central Valley

David Daniel
+1 (916) 364 1645
sacramento@bonhams.com

California Palm Springs

Brooke Sivo
+1 (760) 350 4255
palmsprings@bonhams.com

California San Diego

Brooke Sivo
+1 (760) 567 1744
sandiego@bonhams.com

Colorado

Lance Vigil
+1 (720) 355 3737
colorado@bonhams.com

Florida

April Matteini
+1 (305) 978 2459
Miami@bonhams.com
Alexis Butler
+1 (305) 878 5366
Miami@bonhams.com

Georgia

Mary Moore Bethea
+1 (404) 842 1500
georgia@bonhams.com

Illinois & Midwest

Natalie B. Waechter
+1 (773) 267 3300
Shawn Marsh
+1 (773) 680 2881
chicago@bonhams.com

Edinburgh

22 Queen Street
Edinburgh
EH2 1JX
+44 131 225 2266
+44 131 220 2547 fax

Los Angeles

7601 W. Sunset Boulevard
Los Angeles
CA 90046
+1 (323) 850 7500
+1 (323) 850 6090 fax

San Francisco

220 San Bruno Avenue
San Francisco
CA 94103
+1 (415) 861 7500
+1 (415) 861 8951 fax

Massachusetts

Amy Corcoran
+1 (617) 742 0909
boston@bonhams.com

Nevada

David Daniel
+1 (775) 831 0330
nevada@bonhams.com

New Mexico

Terri Adrian-Hardy
+1 (602) 859 1843
newmexico@bonhams.com

Oregon

Sheryl Acheson
+1 (971) 727 7797
oregon@bonhams.com

Texas – Dallas

Mary Holm
+1 (214) 557 2716
dallas@bonhams.com

Texas – Houston

Lindsay Davis
+1 (713) 855 7452
texas@bonhams.com

Virginia

Gertraud Hechl
+1 (202) 422 2733
virginia@bonhams.com

Washington

Heather O'Mahony
+1 (206) 566 3913
seattle@bonhams.com

**Washington DC
Mid-Atlantic Region**

Gertraud Hechl
+1 (202) 422 2733
washingtonDC@bonhams.com

Canada**Toronto, Ontario**

Kristin Kearney
340 King St East
2nd Floor, Office 213
Toronto ON
M5A 1K8
+1 (416) 462 9004
info.ca@bonhams.com

Montreal, Quebec

+1 (514) 209 2377
info.ca@bonhams.com

MIDDLE EAST**Israel**

Joslyne Halibard
+972 (0)54 553 5337
joslyne.halibard@bonhams.com

SOUTH AMERICA**Brazil**

+55 11 3031 4444
+55 11 3031 4444
fax

UNITED KINGDOM**South East England****Guildford**

Millmead,
Guildford,
Surrey GU2 4BE
+44 1483 504 030
+44 1483 450 205
fax

Isle of Wight

+44 1273 220 000

Representative:

Brighton & Hove
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+44 1273 220 000

West Sussex

+44 (0) 1273 220 000

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Charlotte Street
Bath BA1 2LL
+44 1225 788 988
+44 1225 446 675
fax

Cornwall – Truro

36 Lemon Street
Truro
Cornwall
TR1 2NR
+44 1872 250 170
+44 1872 250 179
fax

Exeter

The Lodge
Southernhay West
Exeter, Devon
EX1 1JG
+44 1392 425 264
+44 1392 494 561
fax

Tetbury

Eight Bells House
14 Church Street
Tetbury
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GL8 8JG
+44 1666 502 200
+44 1666 505 107
fax

Representatives:

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+44 1284 716 190

Norfolk

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Reepham
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+44 1603 871 443
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fax

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The Old House
Station Road
Knowle, Solihull
West Midlands
B93 0HT
+44 1564 776 151
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fax

Oxford

Banbury Road
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Kidlington OX5 1JH
+44 1865 853 640
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fax

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The West Wing
Bowcliffe Hall
Bramham
Leeds
LS23 6LP
+44 113 234 5755
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fax

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Vicars Lane,
Chester,
CH1 1QE
+44 1244 313 936
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fax

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The Stables
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+44 161 927 3822
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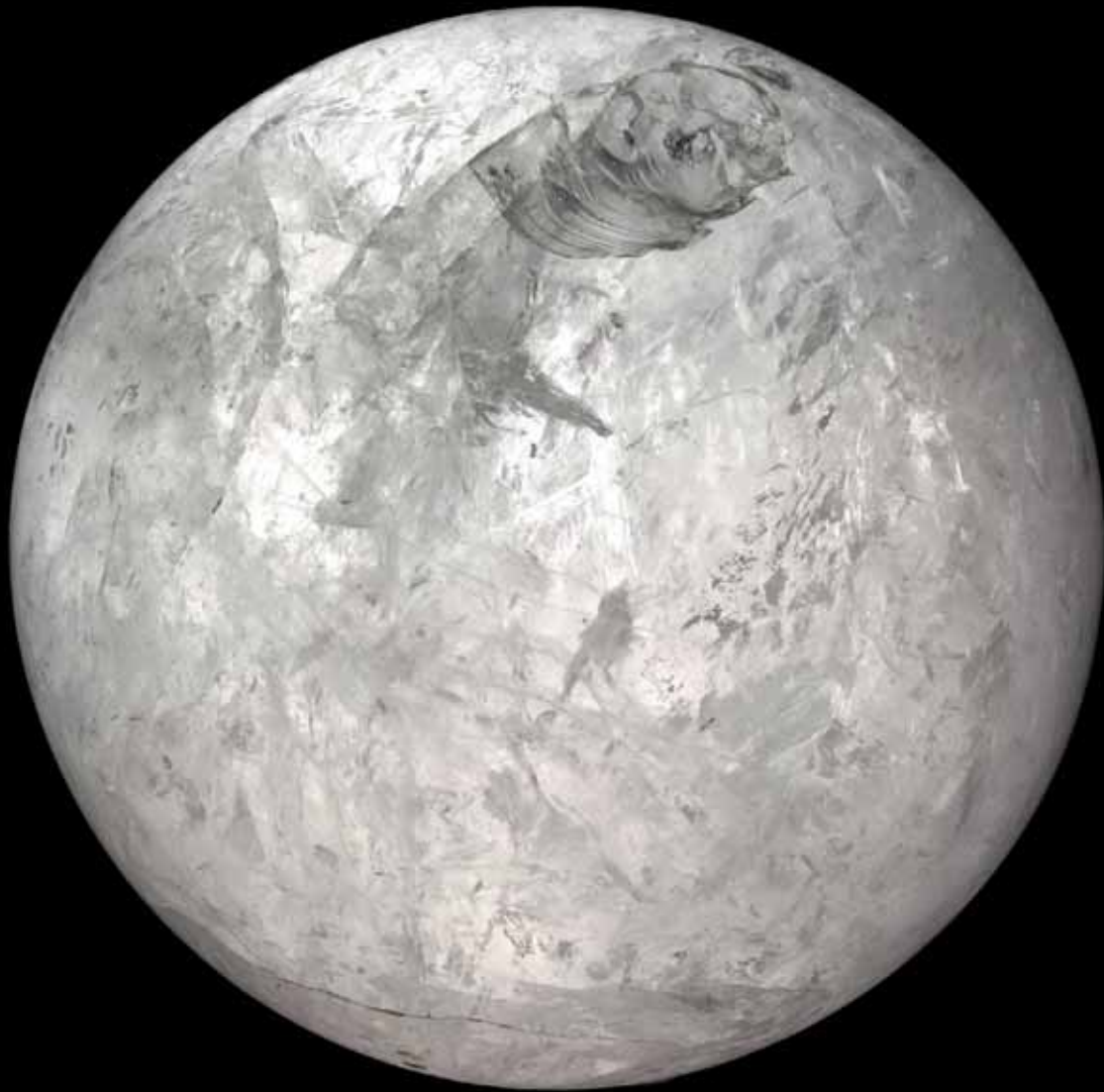
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