John S. White

Mineral and Gem Collections

GENERAL

Nephrite boulder – Trinity County, California

Pyrite
Navajun, Logroño, Spain
20-11-3

12 cm

Figured specimen (12)

Beryl var. emerald – Crabtree Mountain emerald mine, Mitchell Co., N.C. G5-9-12

5 cm

Ocean jasper – Cabamby mine, Majunga, Madagascar – G10-9-1

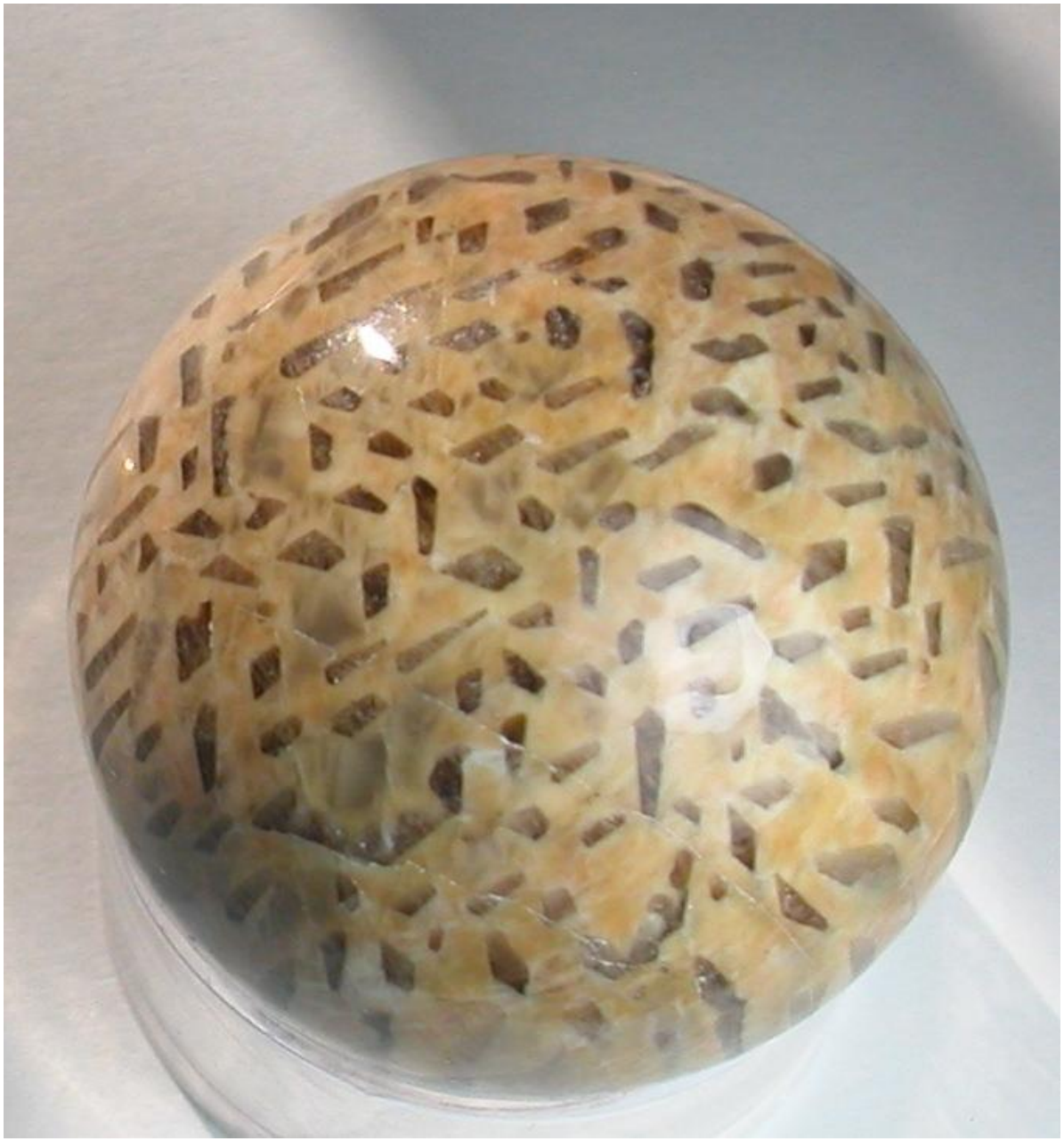
4.3 cm

Ocean jasper – Cabamby mine, Majunga, Madagascar G11-2-3

4 cm

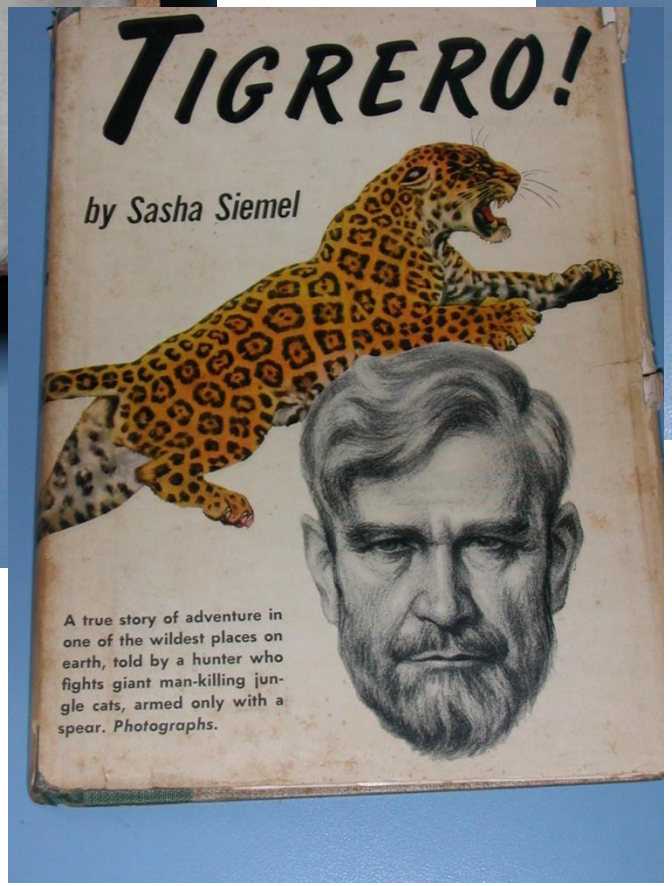
Andalusite, variety chiastolite – China 10-2-43

2.7 cm



Graphic granite – Madagascar 17-9-3
4.5 cm

Garnet color suite – mixed localities G8-11-1

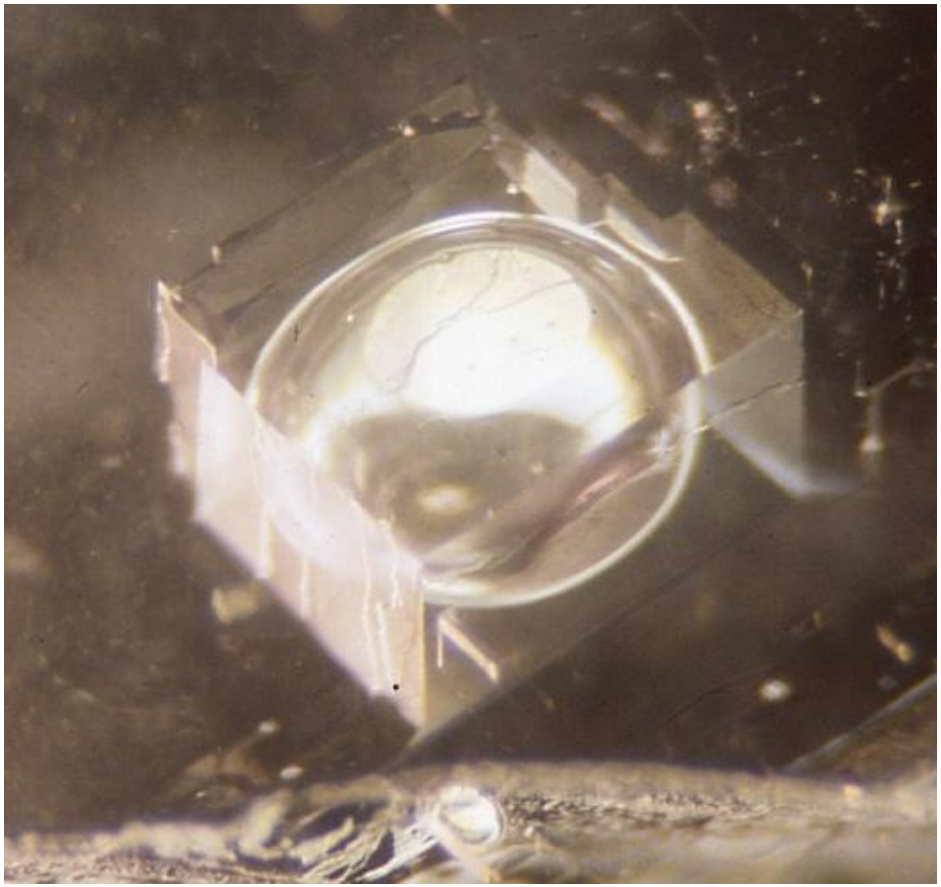


Beryl
Governador Valadares
Minas Gerais, Brazil
19-4-2 & 19-5-4

Sasha Siemel
Jaguar hunter
&
Mineral dealer

These specimens were sold by Sasha Siemel to friends of mine at a mineral show in Doylestown, PA, 1956

Gas bubble in fluorite
Cave-in-Rock, Illinois
4-12-3



Russell Feather photo

Regional Collection

Pennsylvania – Maryland - Virginia

Magnetite – Grace mine, Morgantown, PA 4-6-1

6.5 cm

Rutile – Parkesburg, Chester County, PA 3-9-16

5 cm

Dolomite - Ober & Binkley quarry, E. Petersburg, Lancaster Co., PA 17-2-6

10.5 cm

Pyromorphite – Wheatley mine, Phoenixville, Chester Co., PA 6-6-9

9 cm

Analcime & Apophyllite – Cornwall mine, Cornwall, Lebanon County, PA 20-10-15

10 cm

Quartz – Reading anthracite mine, near St. Clair, Schuykill Co., PA 19-9-7

10 cm

Fluorapatite & Actinolite – Silver Hill quarry, Brecknock Twp., Lancaster Co., PA 18-2-18

11.5 cm

Wavellite – Mt. Pleasant Mills quarry, Perry Twp., Snyder Co., PA 18-2-19

4 cm

Strontianite – Oak Hill quarry, Centre County, PA 21-11-1

5.5 cm

Strontianite – Tonoloway limestone, Mt. Pleasant Mills quarry, Snyder Co. PA 18-5-5

6.5 cm

Calcite – Shippensburg quarry, Cumberland County, PA 16-2-11

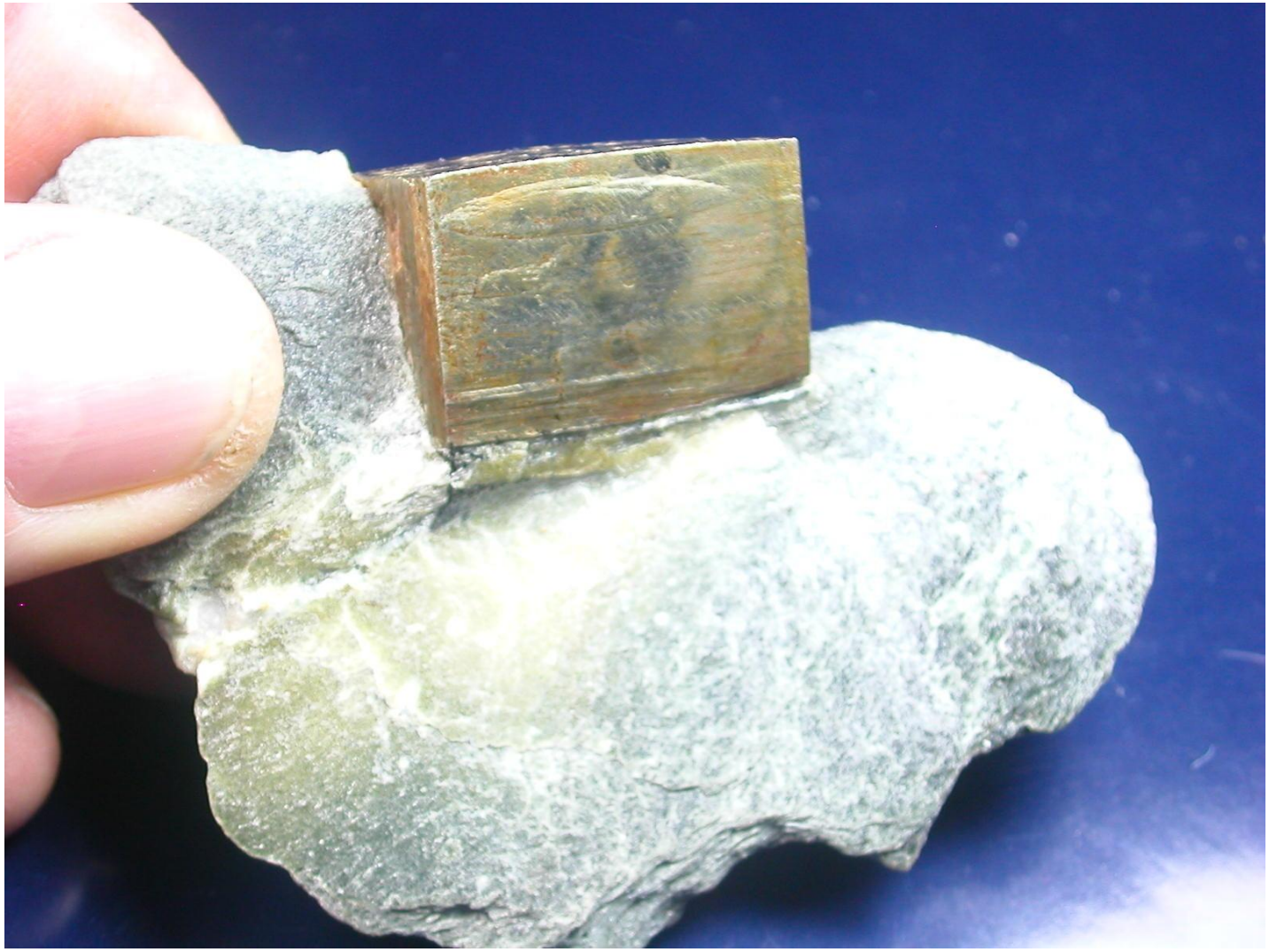
4 cm

Calcite – Lincoln quarry, York County, PA 13-8-2

8 cm

Calcite – Thomasville quarry, York County, PA 21-2-6

5.5 cm



Pyrite – I-83 roadcut, east side, York, York County, PA 8-4-9

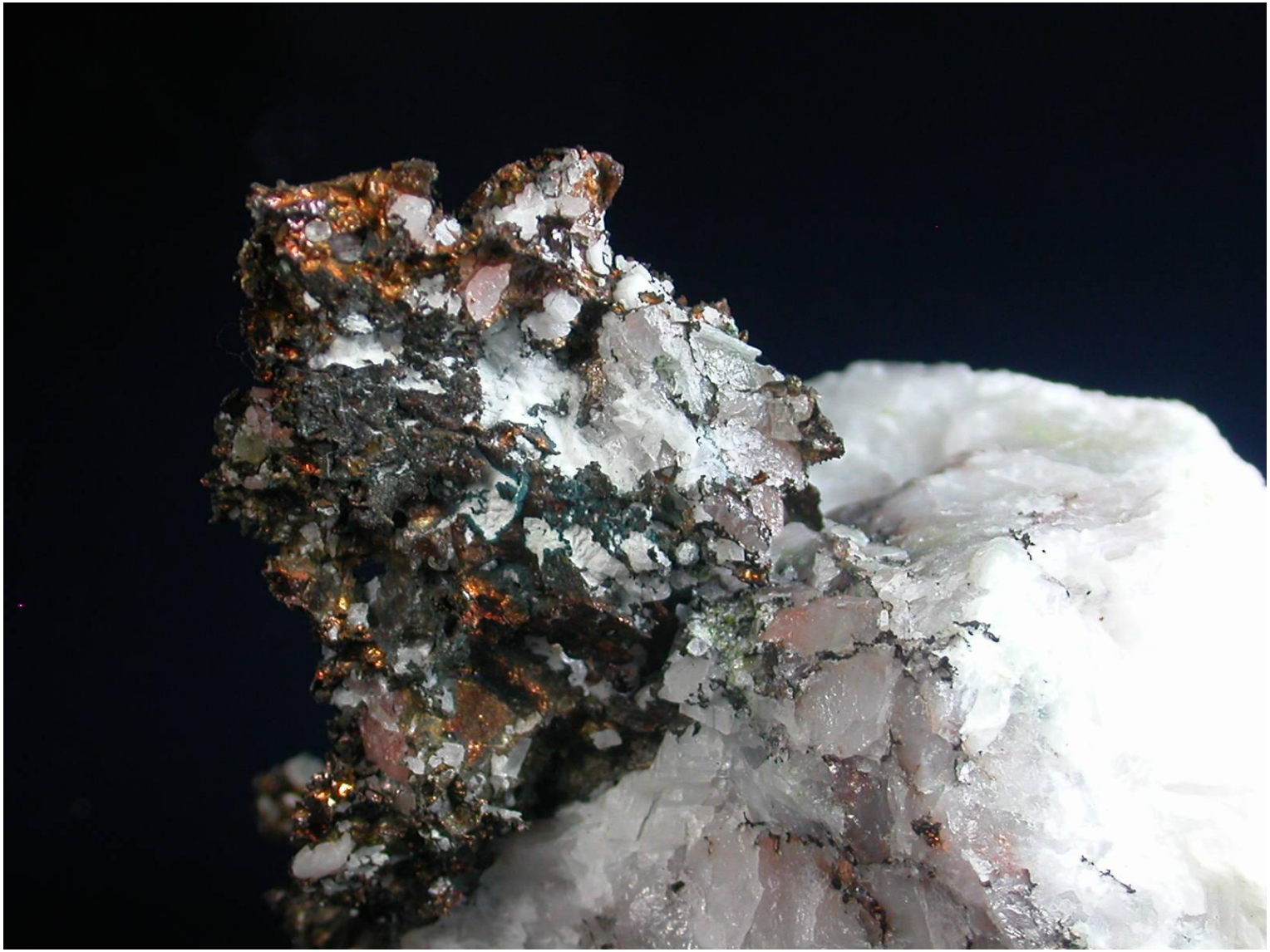
Crystal is 2.8 cm

Celestine – Meckley quarry, Mandata, Northumberland Co., PA 10-10-30

6.5 cm

Celestine – Meckley quarry, Mandata, Northumberland Co., PA 10-12-1

11 cm



Copper – Pine Mountain, Adams County, PA 12-5-3

The copper is about c cm across

Sphalerite – Phoenixville, Chester County, PA 4-5-1

7 cm

Stilbite & Calcite – Kibblehouse quarry, Perkiomenville, Montgomery Co., PA 1-11-26

8 cm

Almandine – Arundel gneiss quarry, Baltimore County, MD 5-9-13

4 cm

Dravite in marble – Texas quarry, Cockeysville, Baltimore Co., MD 12-5-6

8 cm

Epidote – Maryland Materials quarry, North East, Cecil Co., MD 8-5-4

8 cm

Schorl – Maryland Materials quarry, North East, Cecil Co., MD 6-6-18

Crystal is 6 cm

Schorl – Maryland Materials quarry, North East, Cecil Co., MD 8-6-1-1

9 cm

Stilbite – Maryland Materials quarry, North East, Cecil Co., MD 8-6-1-2

6 cm

Serpentine, var. Williamstite - Lowes mine, State Line chrome pits, Cecil Co., MD

6 cm

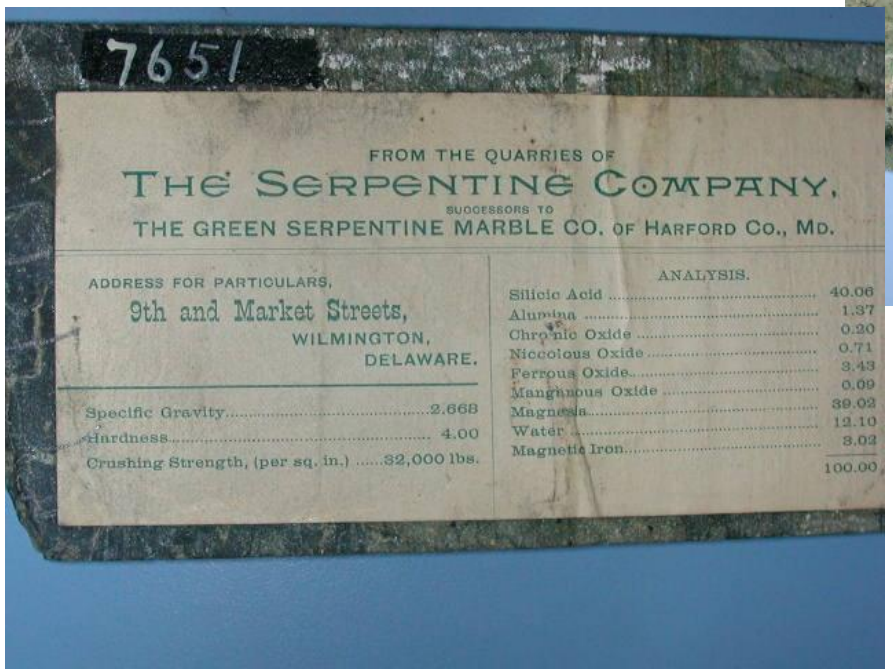
Figured specimen

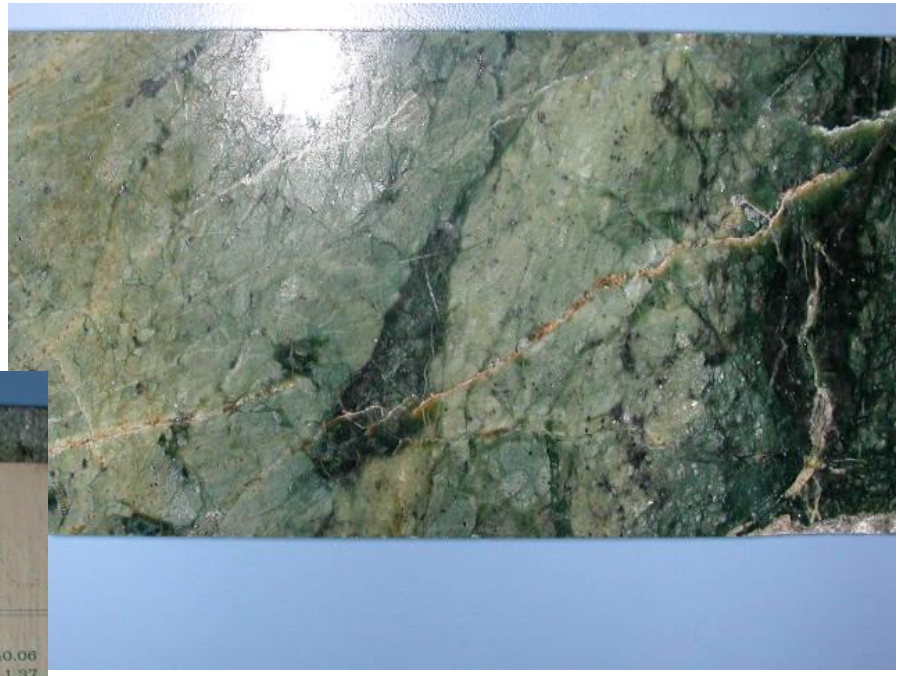
Rutile – Dinning rutile prospect, Harford County, MD 11-3-3

5 cm

Goethite after Pyrite – Fruitville Pike, Lancaster Co., PA 18-5-4

3 cm





Serpentine – Byer's quarry, Harford Co. MD 19-7-2

14 cm

Apophyllite (KOH) & Prehnite – Fairfax quarry, Centreville, Fairfax Co. VA 20-8-3

13 cm

Apophyllite (KOH) on prehnite – Fairfax quarry, Centreville, Fairfax Co., Virginia 3-9-20

7 cm

Prehnite with epidote
Fairfax quarry, Centreville
Fairfax County
Virginia
6-6-13

9.7 cm

Datolite – Virginia traprock quarry, Leesburg, Virginia 13-5-6

7 cm

Quartz var. amethyst – Amherst County, Virginia 19-5-1

7 cm

QUARTZ COLLECTION

Quartz, var. Ametrine – Anahi mine, Santa Cruz, Bolivia 14-9-12

8.5 cm

Jim Lawson photo

Quartz, var. Ametrine – Anahi mine, Santa Cruz, Bolivia G7-1-5

5 cm

Jim Lawson photo

Quartz, var. Ametrine – synthetic G7-11-1

5.5 cm

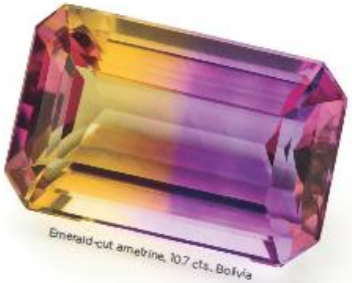
Jim Lawson photo

SMOKIN' STONES

By Sharon Elaine Thompson

Ametrine

a jazzy mix of amethyst and citrine



Emerald-cut ametrine, 10.7 cts., Bolivia

A QUARTZ GEMSTONE that is partly amethyst color (lavender to purple) and partly citrine color (yellow to orange), ametrine never fails to get a reaction. Most naturally occurring ametrine comes from Bolivia, though other sites occasionally produce these bicolored gems. Color-zoned amethyst, treated to create ametrine, is also on the market. Prices for treated and untreated material are about the same. Treatment is stable.

The fascination with ametrine depends on being able to see both colors in one stone, so most stones are large enough to show off the combination. Ametrines are most often cut into emerald cuts because the elongated shape provides the best opportunity to show the purple and yellow side by side. However, some cuts are designed to blend the colors into a mix that's, well, just plain peachy.

Ametrine's split personality gives you lots of potential for interesting jewelry design. On opposite sides of the color wheel, purple and yellow are complementary colors, and when used together, they almost vibrate with energy. Take advantage of this and have fun. Set ametrines with both amethysts and citrines. Or set an ametrine off with yellow or orange agate or jasper beads, yellow jade, amethyst beads, sugilite, or other stones in the yellow to orange and purple range.

Merle's pendant

Ametrine pendant, 34 mm point to point

Uncut ametrine quartz, about 3" long, Anahi mine, Santa Cruz, Bolivia

14-9-2

On opposite sides of the color wheel, purple and yellow are complementary colors, and when used together, they almost vibrate with energy.

How much does it cost? Faceted stones run from $1 to $25 per carat; rough from $8 to $60 per carat; beads from $10 to $300 a strand. Price depends on size, intensity of the colors, and quality of cutting. Carved ametrines vary widely in price.

How hard is it to find? Pretty easy. Ametrine is available at most gem shows and online venues.

What kind of jewelry can I put this in? Because they're quartz, ametrine stones have a Mohs hardness of 7. They're tough and durable and can be set in just about anything you can design. The stones will eventually scratch or abrade if set in jewelry such as rings, bracelets, or cuff links, but that will take some time — and the stones can be repolished.

How easy is it to set? Most ametrine stones are faceted, so prong settings will give them the most light and life. Like many quartzes, they can be cut deep with heavy bellies, making setting tricky. Be sure the stone seat is even and shaped to the stone to prevent unequal pressure when you put the prongs down.

What are best settings for this stone? While prongs are the most common settings for ametrine, you can also bezel set them, or use partial bezels. They lend themselves to wire wrapping as well.

Artisan/studio dos and don'ts: Ametrines have the same shop caveats as other quartzes. Do not solder with stones in place. Do not put ametrines under a steamer. Thermal shock can create internal fractures or break the stone. Stones with internal fractures should not go into the ultrasonic cleaner. Avoid contact with acids.

Wearer dos and don'ts: These gems can take a lot of wear, but stored unprotected with stones of higher hardness — diamonds, sapphires and rubies, garnets, CZs, moissonites, topaz — the stones will scratch. Always store jewelry in a way that prevents pieces from rubbing against each other.

SHARON ELAINE THOMPSON has written for *Lapidary Journal Jewelry Artist* since 1987. Her book, *Good Bones: the Elements and Principles of Design for Jewelry Makers*, is coming soon from Brynmorgan Press. You can learn more about her at her sharonelainethompson.com.

Synthetic ametrine, about 2-3/4" long

G7-11-1

facet it

PAGE 43

The "Smokin'" design for a Smokin' Stone!

Polished cross section of an amethyst crystal shows the distinctive color zoning, Bolivia

G7-1-5

Faceted round ametrine, 15.59 cts., Bolivia

G20-9-2

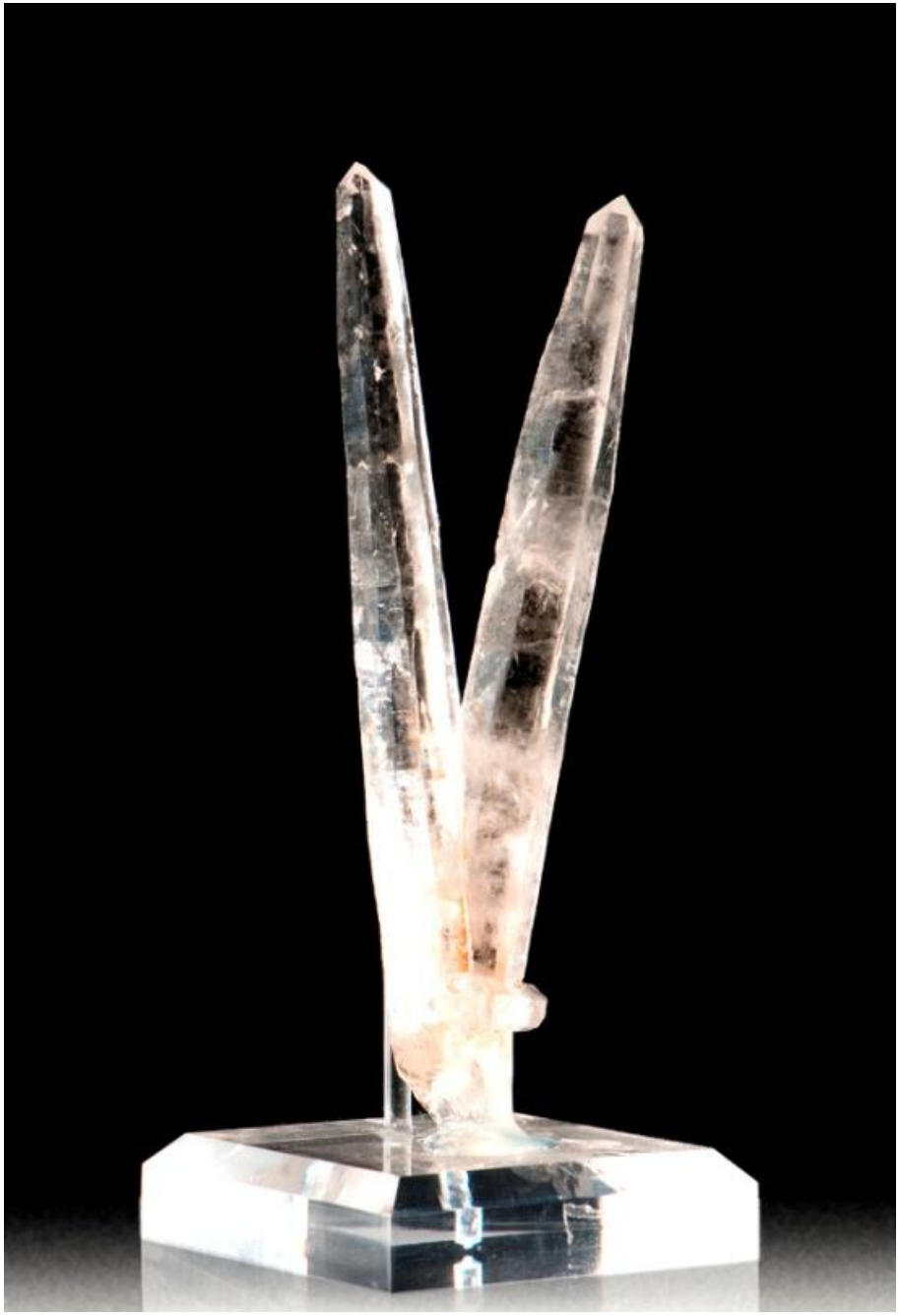
PHOTOS: JIM LAWSON. AMETRINE COURTESY JOHN SAMPSON WHITE

Quartz var. Ametrine – Anahi mine Santa Cruz, Bolivia 4-2-22

8.5 cm

Quartz
Diamantina, Minas Gerais, Brazil
16-6-1

16 cm



Venable photo

Quartz
Galileia, Minas Gerais
Brazil
19-2-12

9 cm

Quartz with phantom – Minas Gerais, Brazil 6-9-6

4.4 cm tall

Quartz – bizarre shape
Almezindo mine
Linopolis, Minas Gerais
Brazil
8-2-31

Gift of Carlos Barbosa

15.5 cm

Quartz
S. Geraldo de Baixio
Minas Gerais
Brazil
4-9-9

5 cm

Quartz
Brazil
20-9-14

18.7 cm

Quartz, smoky and rose on microcline – Linopolis, Minas Gerais, Brazil 20-2-43

8.5 cm

Quartz
Salinas, Minas Gerais
Brazil
19-9-2

7 cm

Rutile in and on quartz

Lavro do Cascalho, nr. Conselheiro Pena, Minas Gerais, Brazil 14-2-15

11 cm

Rutilated quartz
Lavro do Cascalho
nr. Conselheiro Pena
Minas Gerais
Brazil
14-9-25

3.8 cm

Quartz with Rutile inclusions
Brazil
4-9-14

8 cm

Scovil photo

Quartz with unknown inclusions
Brazil
4-9-13

6.5 cm

Scovil photo

Quartz with tourmaline inclusions – Minas Gerais, Brazil 3-9-25

4.5 cm

Quartz with Rutile inclusions
Minas Gerais, Brazil
2-11-10

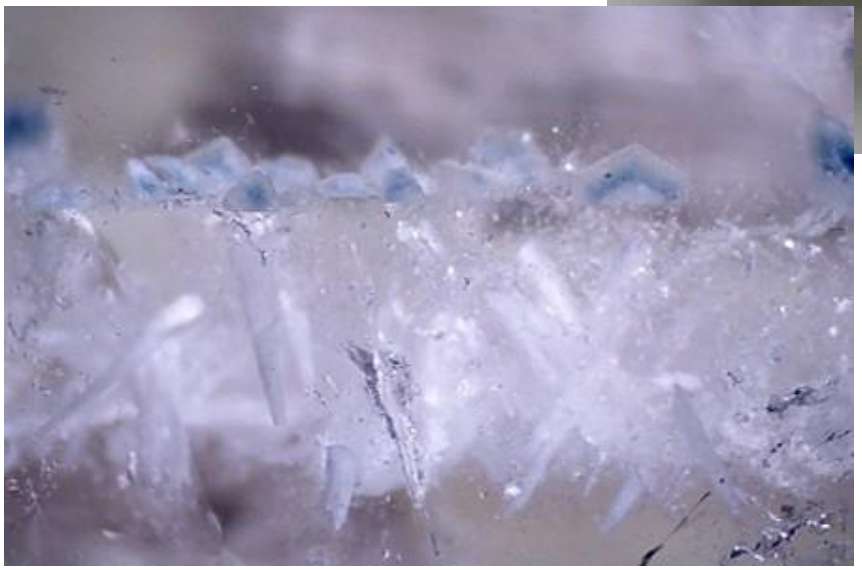
10.7 cm

Quartz with inclusions and cleavage – Brazil G16-2-6

8.5 cm

Quartz
with inclusions of
Fluorapatite and
cookeite
Parelhas
Rio Grande do Norte
Brazil
6-2-45

7.5 cm



Russell Feather photo

Cookeite X-rayed
Figured specimen (17)

Quartz var. Chalcedony
Paraiba
Rio Grande do Norte
Brazil
10-2-47

17 cm

Quartz “flower” var. Amethyst – Planalto, Rio Grande do Sul, Brazil 20-9-15

13.5 cm

Quartz “flower”
Irai, Rio Grande do Sul
Brazil
4-9-8

7.5 cm

Quartz, amethyst and agate sphere – Rio Grande do Sul, Brazil 10-9-24

7 cm

Quartz, var. amethyst with cristobalite – Rio Grande do Sul, Brazil 9-9-20

16 cm

Quartz
Irai, Rio Grande do Sul
Brazil
16-9-23

10.5 cm

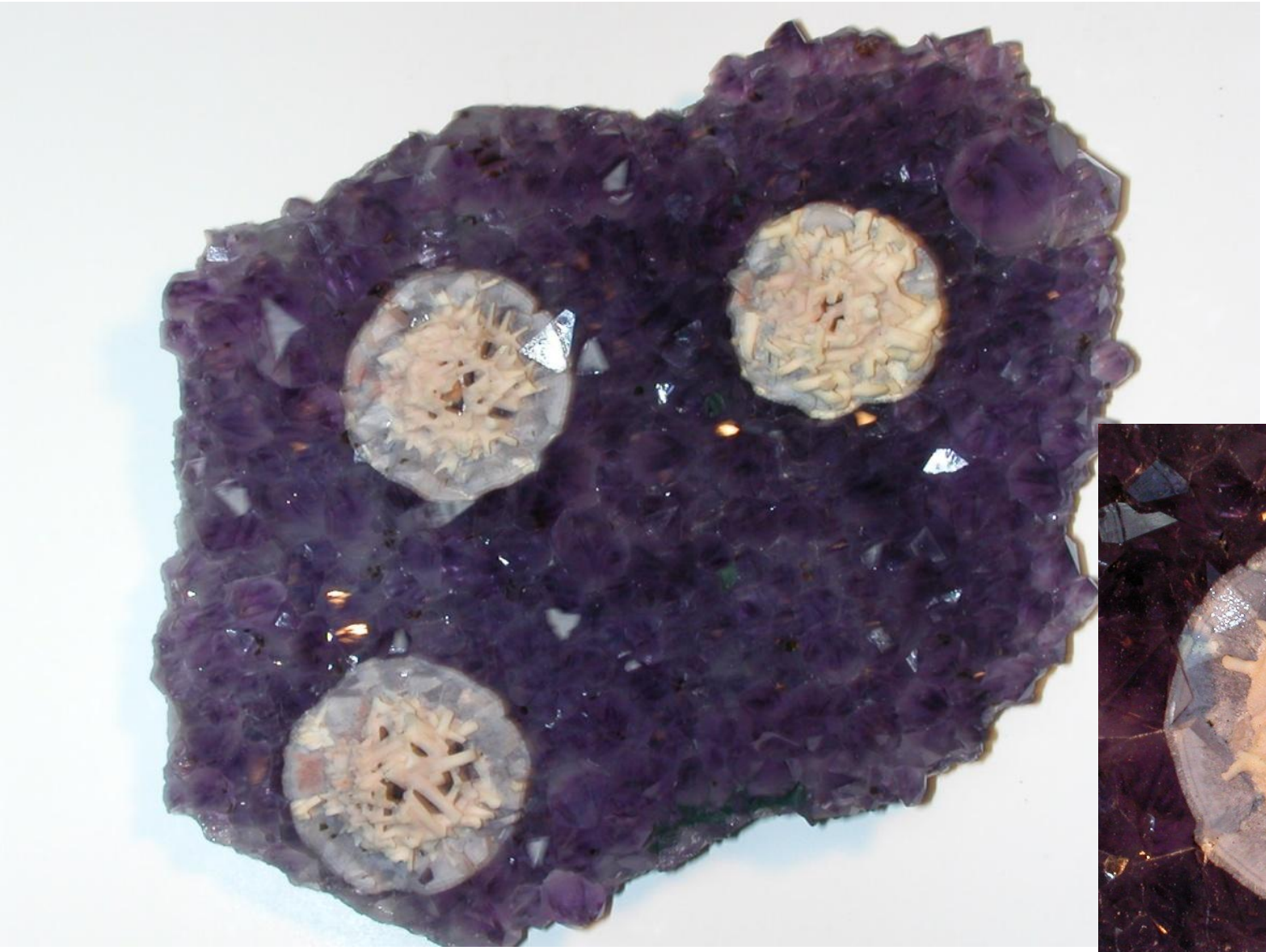
Venable photo

Quartz after anhydrite – Rio Grande do Sul, Brazil 9-9-1

7 cm

Quartz after calcite
Rio Grande do Sul, Brazil
14-2-39

7.3 cm



Quartz, var. Amethyst with Calcite – Rio Grande do Sul, Brazil 19-2-32

15 cm

Quartz, var. agate – Rio Grande do Sul, Brazil 15-2-42

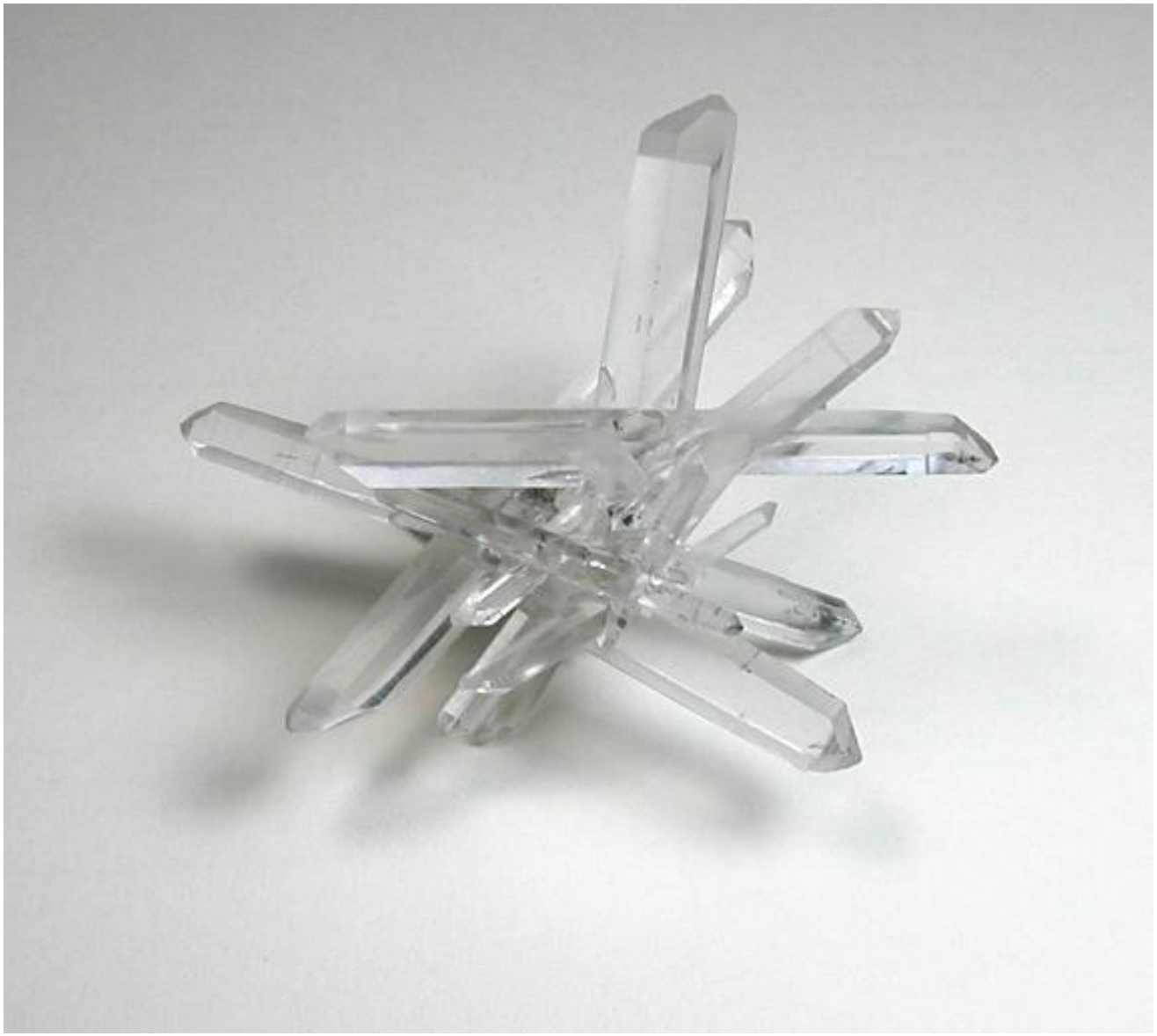
44.5 cm

Agate sphere – Brazil 3-2-1

3.8 cm

Quartz – Jinkouhe, Leshan, Sichuan, China 20-2-2

8 cm



Quartz – Ton Glo Shan, Sichuan, China 12-10-19

7.3 cm

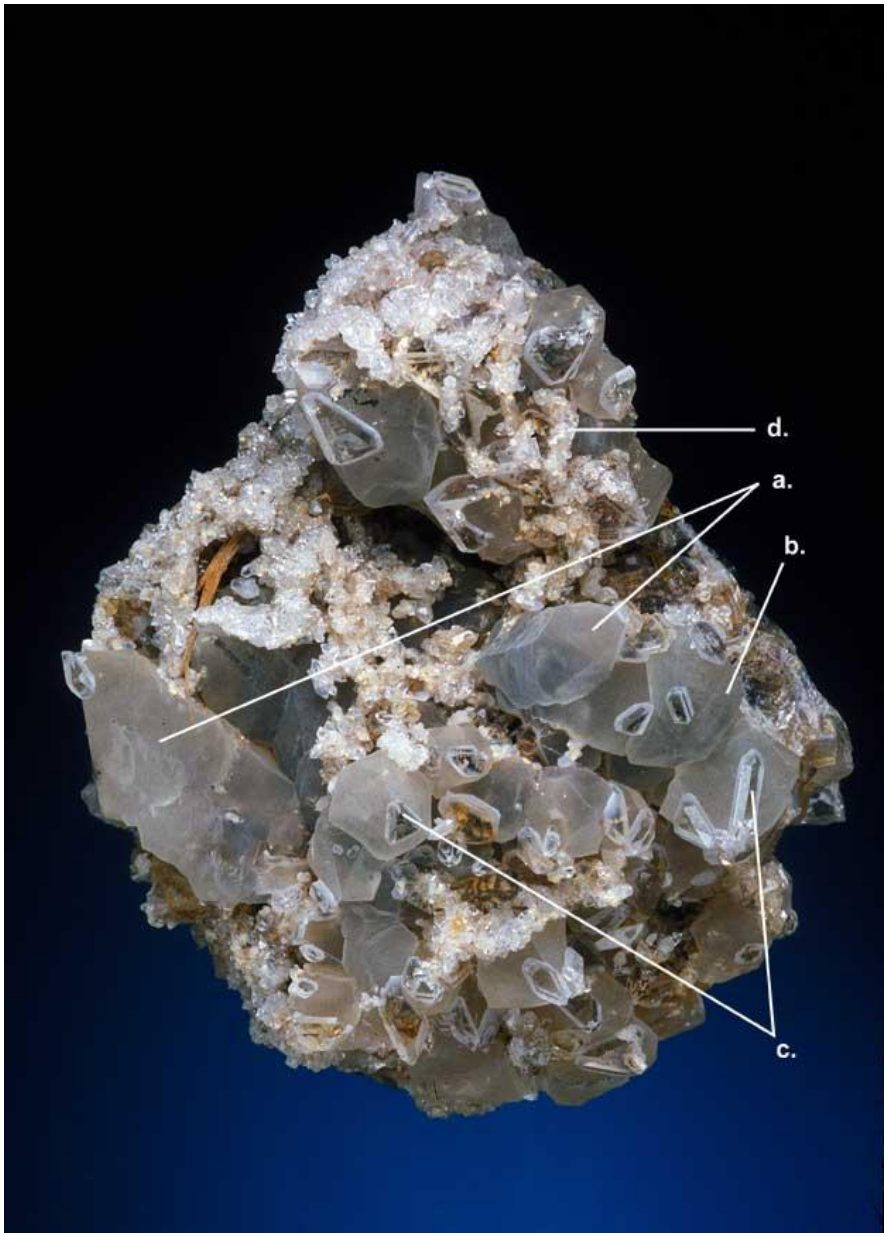
Quartz over Calcite – Fuzichong mine, Guangdong, China 14-10-8

9 cm

Quartz (four generations)
Jinlong, Guangdong, China
12-9-1

7.5 cm

Figured specimen (10)



Huizing photos

Scovil photo

Quartz – Shangbao mine, Leiyang, Hunan, China 9-10-3

10.2 cm

Figured specimen (8)(11)

Quartz with fluorite and pyrite
Shangbao mine, Leiyang, Hunan
China
10-2-5

10 cm

Figured specimen (13)

Huizing photo

Quartz with Hematite
Lechang, Guangdong, China
19-2-6

8 cm

Quartz – Leshan, Sichuan, China 13-9-12

7.5 cm

Quartz with doubly terminated phantoms – Xinyi, Guizhou, China 14-2-26

5.3 cm

Quartz – Jinkouhe, Leshan Pref., Sichuan Prov., China 10-2-15

7.5 cm

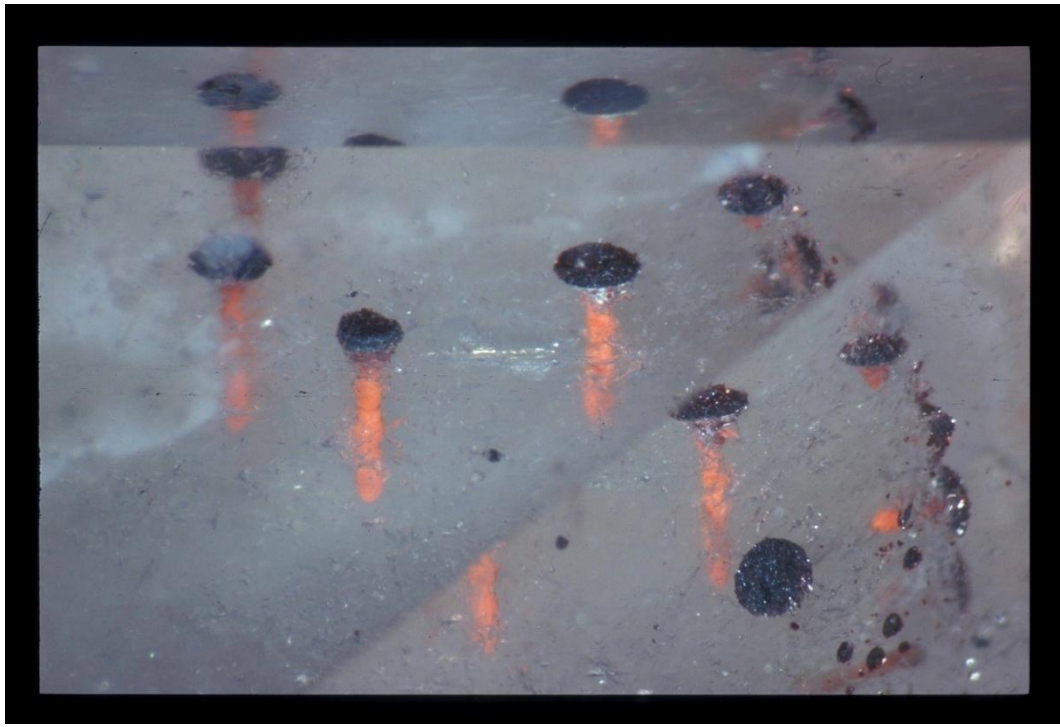
Quartz with black movable spherical bubble – Zhao Tong, Yunan, China

4.8 cm

Quartz with hematite inclusions and epidote
Meigu, Liangshan, Sichuan
China
14-10-10

8 cm

Figured specimen (16)



Koivula photo

Scovil photo

Quartz (curved) with Chlorite – Chivor mine, Colombia 10-2-6

7 cm

Quartz “eisenkiesel” – Suttrop/Warstein, Sauerland, Germany 14-9-23

10 cm

Quartz
with hedenbergite inclusions
Greece
12-5-15

10 cm

Huizing photo

Quartz (chalcedony) oriented on Calcite – Nasik, India 11-1-20

7 cm

Figured specimen (14)

Quartz
Nasik, Maharashtra, India
10-10-4

5.5 cm

Figured specimen (9)

Huizing photo

Quartz scepter
Smoky on Amethyst stem
Ankazobe
Antananarivo Province
Madagascar
20-9-2

5.5 cm

Quartz (chalcedony) geode – Chihuahua, Mexico 14-2-2

5 cm

Quartz (chalcedony) geode – Chihuahua, Mexico 14-2-1

4 cm

Quartz scepter in rhyolite vug – Liliana mine, Chihuahua, Mexico 12-8-1

7.5 cm

Quartz scepters – Liliana mine, Chihuahua, Mexico 12-9-16

3.5 cm

Quartz, var. minaret – Liliana mine, Chihuahua, Mexico 12-8-2

4.5 cm

Quartz var. amethyst
on danburite
Charcas, San Luis Potosi
Mexico
15-10-10

5.2 cm

Figure 17. Amethyst on danburite, 5.3 cm, from Charcas, San Luis Potosi, Mexico. John White specimen; Jeff Scovil photo.

Photo shopped by Wendell Wilson

Scovil photo

Figured specimen (2)

Quartz, var. Amethyst
Amatitlan, Guerrero
Mexico
12-10-9

9 cm

Russell Feather photo

Quartz – Amatitlan, Guerrero, Mexico
6-4-20 (SC 99)

4.2 cm

Crazy lace agate – Sierra Santa Lucia, N. of Ejido Benito Juarez, nr. Flores Magon, Chihuahua, Mexico 20-2-37

17 cm

Quartz pseudomorph
Morocco
2-11-12

14.5 cm

Venable photo

Quartz after ?
High Atlas Mountains
Morocco
4-9-15

5.5 cm across

Quartz var. Amethyst – Middle Atlas Mountains, Morocco 18-9-20

20 cm

Quartz scepters – Tafelkop, Gobosebberge, Namibia 13-10-16

4 cm

Quartz crystals epitaxial on what was once microcline

Erongo Mountains, Namibia
17-11-11

4.5 cm

Jeffrey Wolk photo

Quartz crystals epitaxial on microcline – Erongo Mountains, Namibia 17-10-1

14 cm

Close-up of quartz in previous photo – 17-10-1

Quartz scepter with Chlorite
Tipling mine, Dhading district
Nepal
12-10-26

8.5 cm

Quartz with Chlorite inclusions – Tipling mine, Dhading district, Nepal 13-10-14

6 cm

Quartz
with chlorite inclusions
Genesh Himal
Central Nepal
Nepal
12-10-25

9.5 cm tall

Quartz with Rutile inclusions – Khaplu, Skardu, Pakistan 19-10-3

6 cm

Quartz (faden) – Waziristan, Northwest Frontier Prov., Pakistan 20-2-10

6 cm

Quartz w/Astrophyllite inclusions – Zagi Mtn., Northwest Frontier Prov. Pakistan 19-9-4

8 cm

Quartz (etched) – Gilgit-Skardu Road, Northern Areas, Pakistan 12-2-19

5.8 cm

Quartz – Bor mine, Dalnegorsk, Russia 12-10-1

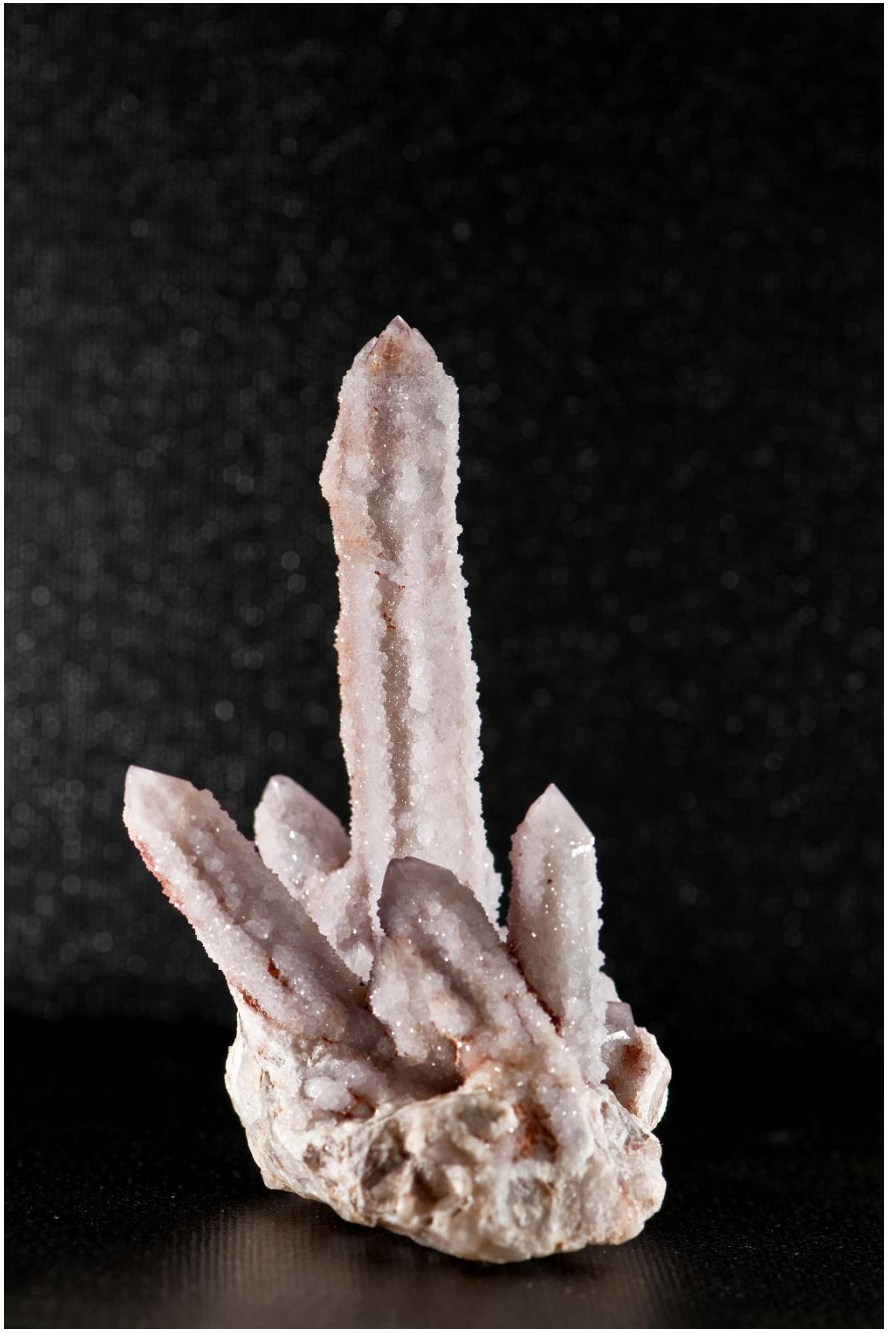
8.8 cm

Quartz
Boekenhout, Mpumalanga
South Africa
13-9-14

12 cm

Quartz
Boekenhout, Mpumalanga
South Africa
13-9-15

9.5 cm



Quartz, var. Amethyst
Artigas, Uruguay
4-9-22

6.5 cm

Venable photo

Quartz, var. Amethyst
Artigas, Uruguay
19-9-10

12 cm

Quartz (Japan Law twin) – Old Coleman mine (Blocker lead #4), Hot Springs, Arkansas
21-2-17

9 cm

Quartz – Idarado mine, Ouray, Colorado 20-2-15

14 cm

Quartz
Var. Amethyst

Jacksons Crossroads
Wilkes County
Georgia

7 cm

SIDE ONE

SIDE TWO

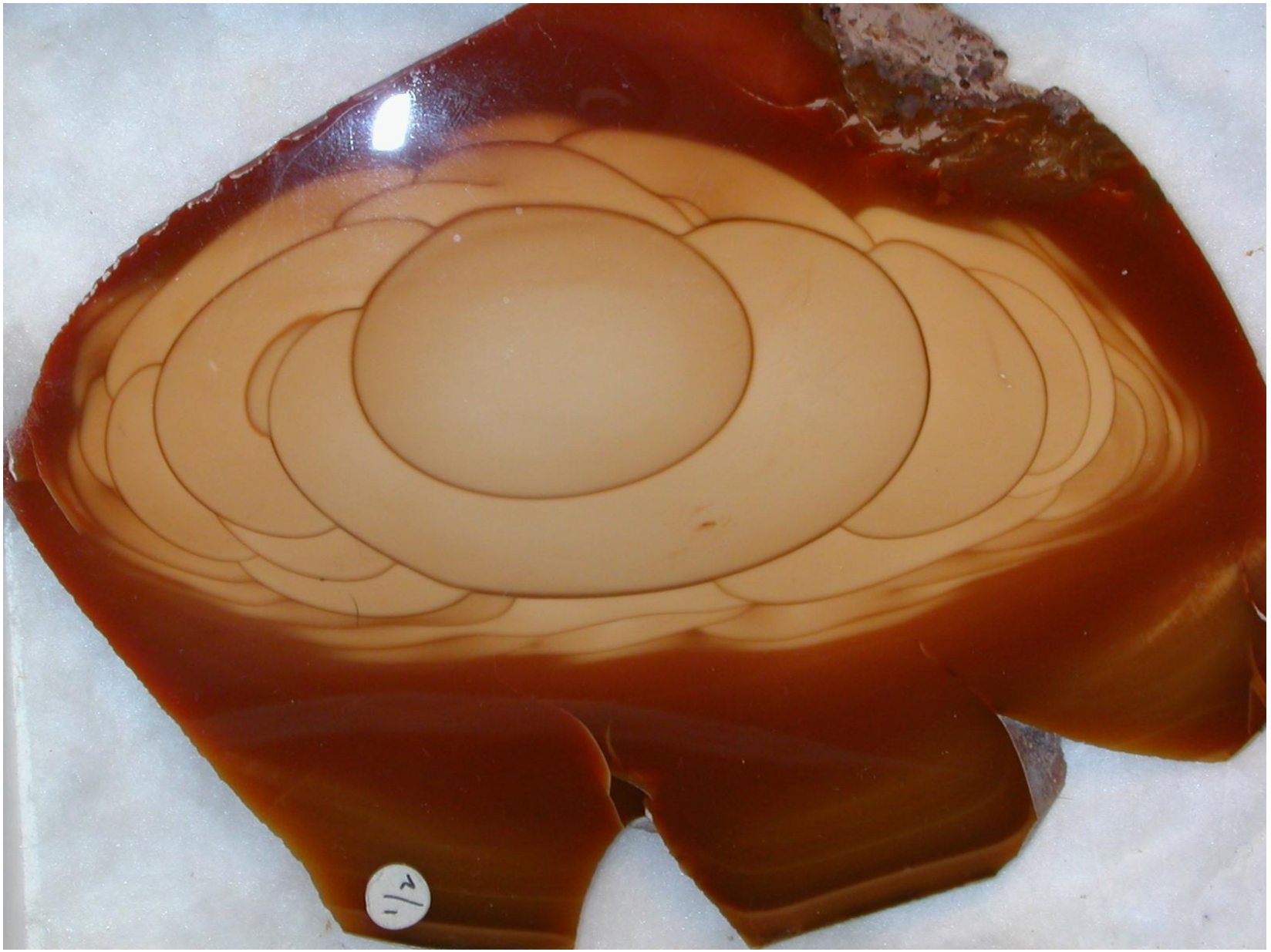
Quartz – Jacksons Crossroads, Wilkes County, Georgia

6.5 cm

Quartz
Var. Amethyst

Jacksons Crossroads
Wilkes County
Georgia

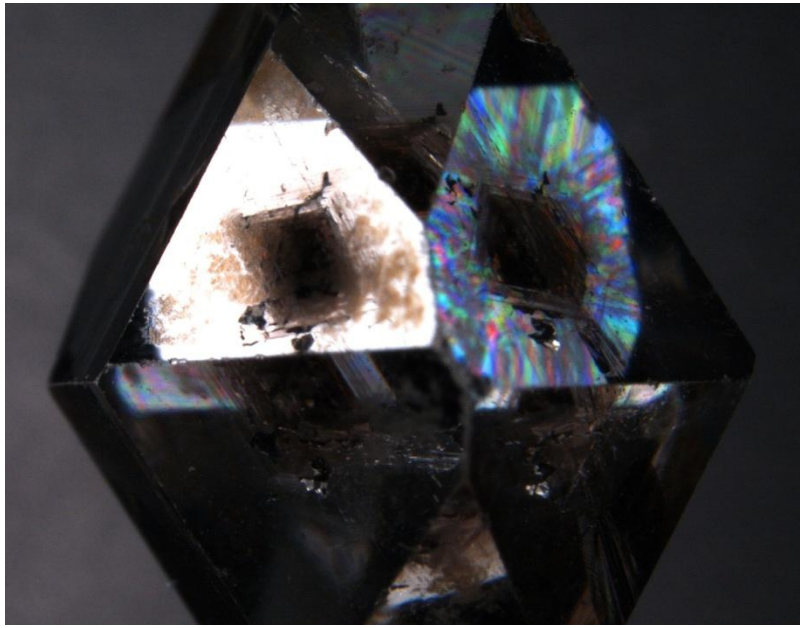
3.5 cm



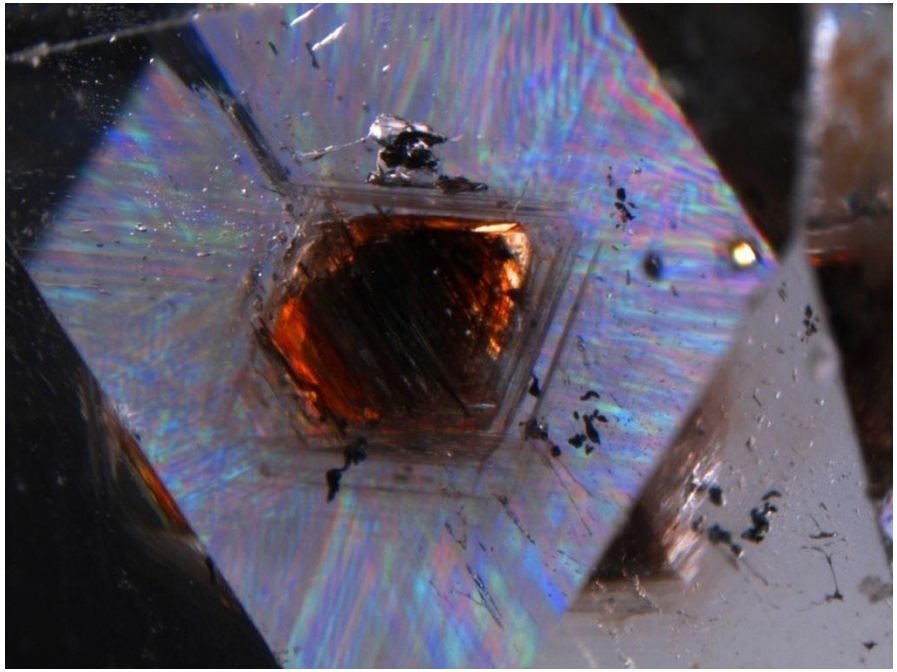
Quartz, var. Jasper – Bruneau Canyon, Owyhee Co., Idaho

Quartz – Sierra Blanca, Lincoln County, New Mexico 1-11-19

6.5 cm



J. S. White photo



Quartz – Middleville, Herkimer Co., NY

19-6-2

Koivula photos

SINGLE CRYSTALS


IMA
RG FRAM

Quartz
Warstein, Nordrhein-Westfalen
Germany
2-8-4 (SC 61)

4 cm

Scovil photo

Danburite
Locotal breccia
Alto Chapare district
Cochabamba Department
Bolivia
5-2-3 (SC 68)

3.7 cm

Multiply figured specimen (1)(6)(7)

Scovil photo

Fluorapophyllite – Maharashtra, India 9-2-14 (SC 146)

2.9 cm

Figured specimen (1)

Casanova photo

Monazite – Rio Preto, Espirito Santo, Brazil 11-7-1 (SC 180)

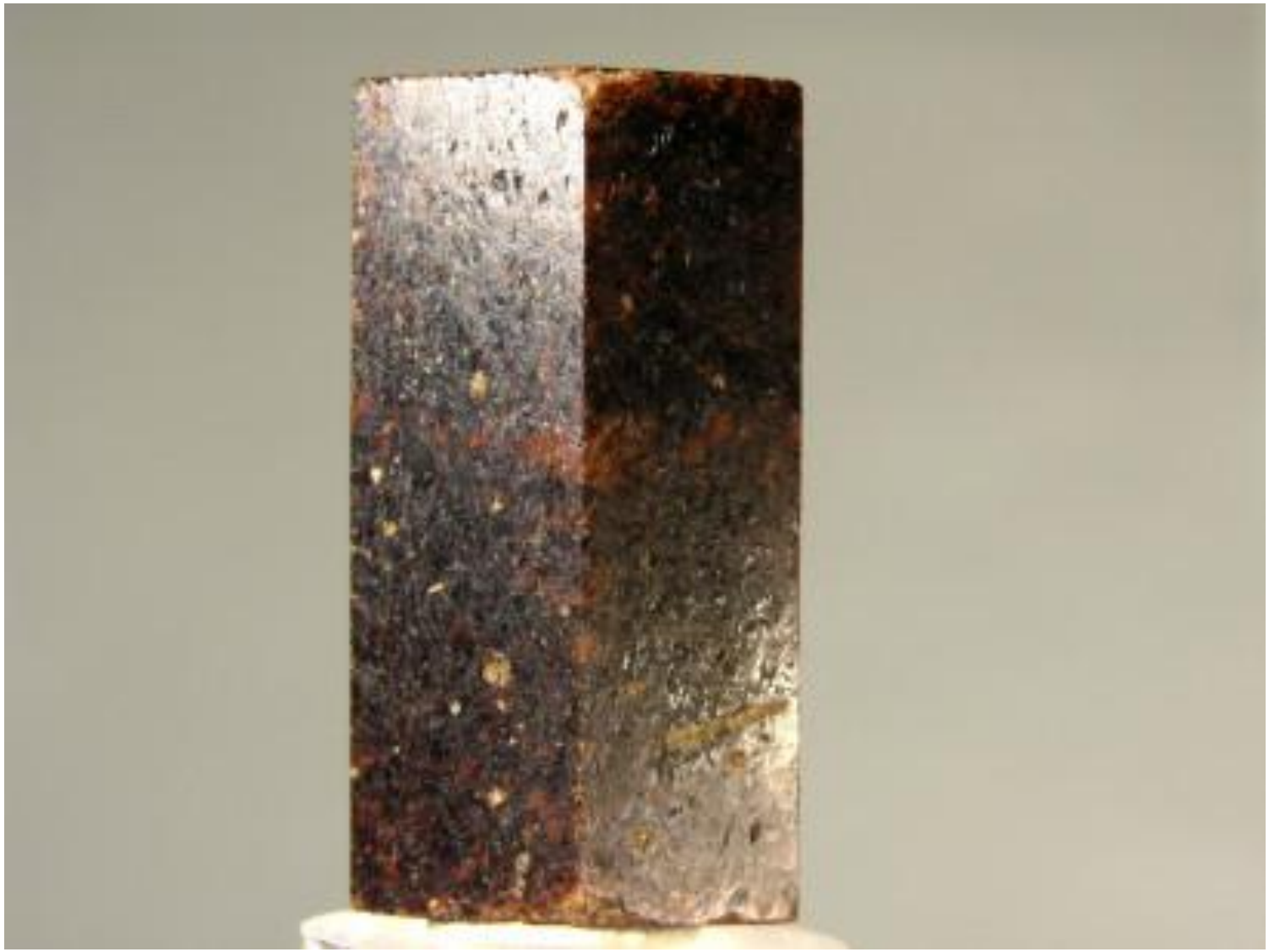
3 cm

Casanova photo

Orthoclase – South Betroka, Madagascar 5.2.12 (SC 71)

2.7 cm

Figured specimen (1)



Casanova photo

Staurolite – Fazenda Graniais, Minas Gerais, Brazil (SC 5)

3.8 cm

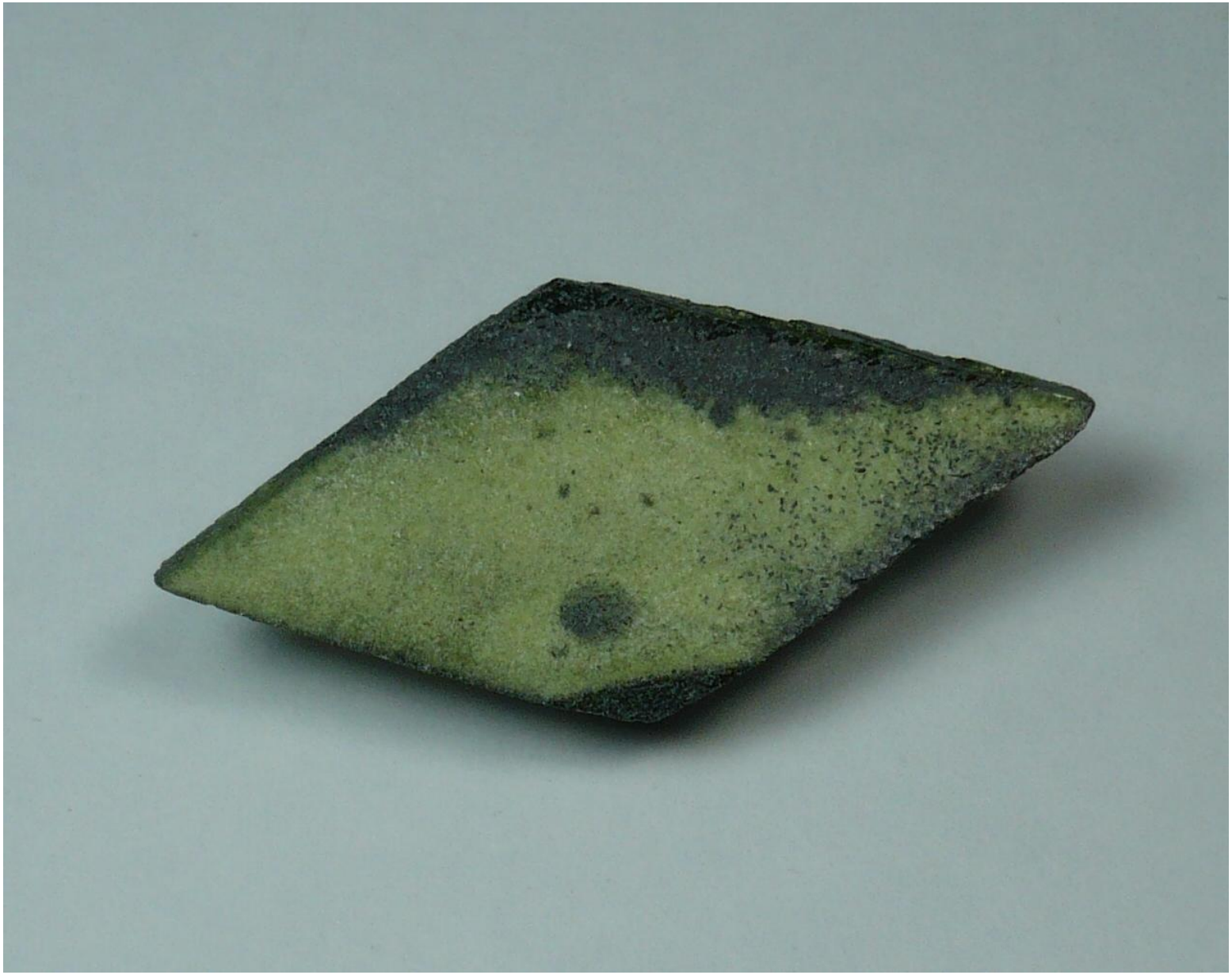
Figured specimen (1)

Casanova photo

Uvite – Brumado mine, Bahia, Brazil 11-9-12 (SC 167)

3.7 cm

Figured specimen (1)



Titanite – Gilgit, Skardu, Pakistan (SC 20)

4.7 cm

Schorl
Dazu, Skardu
Pakistan
10-2-18 (SC 164)

3.5 cm

Figured specimen (15)

Scovil photo

Casanova photo

Vesuvianite – Handan mine, Fushan, Xintai, Hebei, China 15-10-7 (SC 237)

2.7 cm

Casanova photo

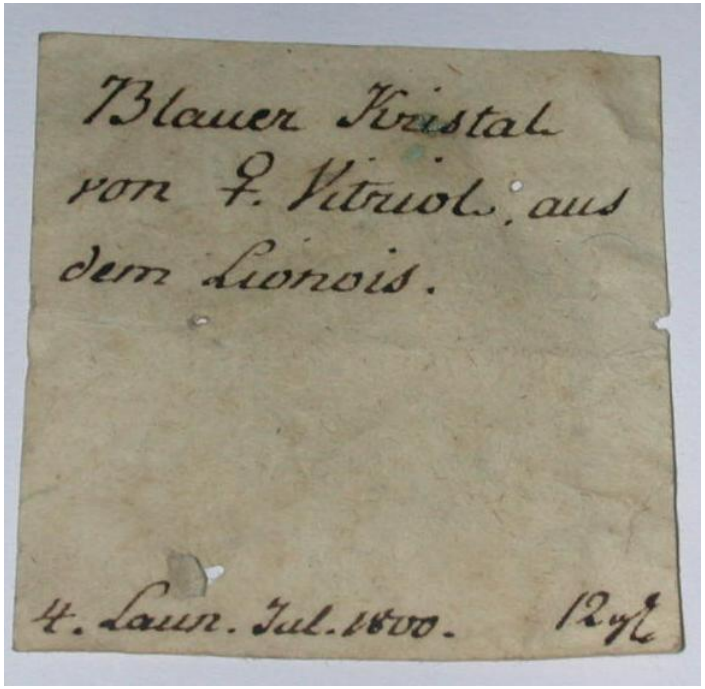
Zincite (synthetic) – Poland 7-1-5 (SC 111)

3.3 cm

Chalcanthite
(synthetic)
8-4-3 (SC 128)

Ex Ferguson collection
Grown 1800

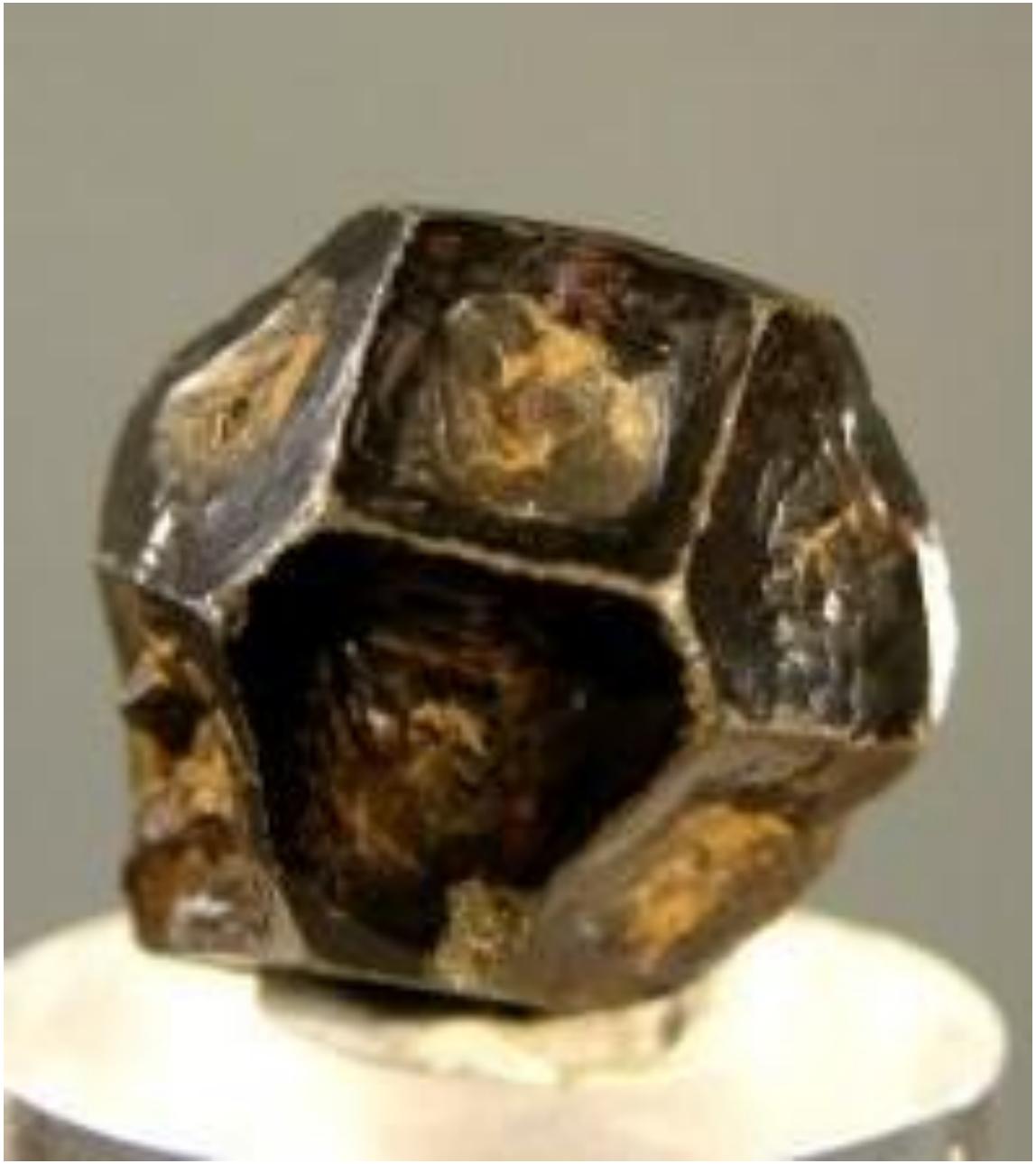
3 cm



Pyrite
Traversella, Chiusella Valley
Italy
6-6-27 (TN 73)

2 cm

Figured specimen (1)



Casanova photo

Scovil photo

Calcite – San Martin mine, Zacatecas, Mexico 15-10-11 (SC 236)

4 cm

Figured specimen (1)

Scovil photo

Fluorapophyllite – Nasik, Maharashtra, India 16-2-18 (SC 244)

2.2 cm

Figured specimen (1)

Almandine
Zimbabwe
SC 45

3.5 cm

Figured specimen (1)

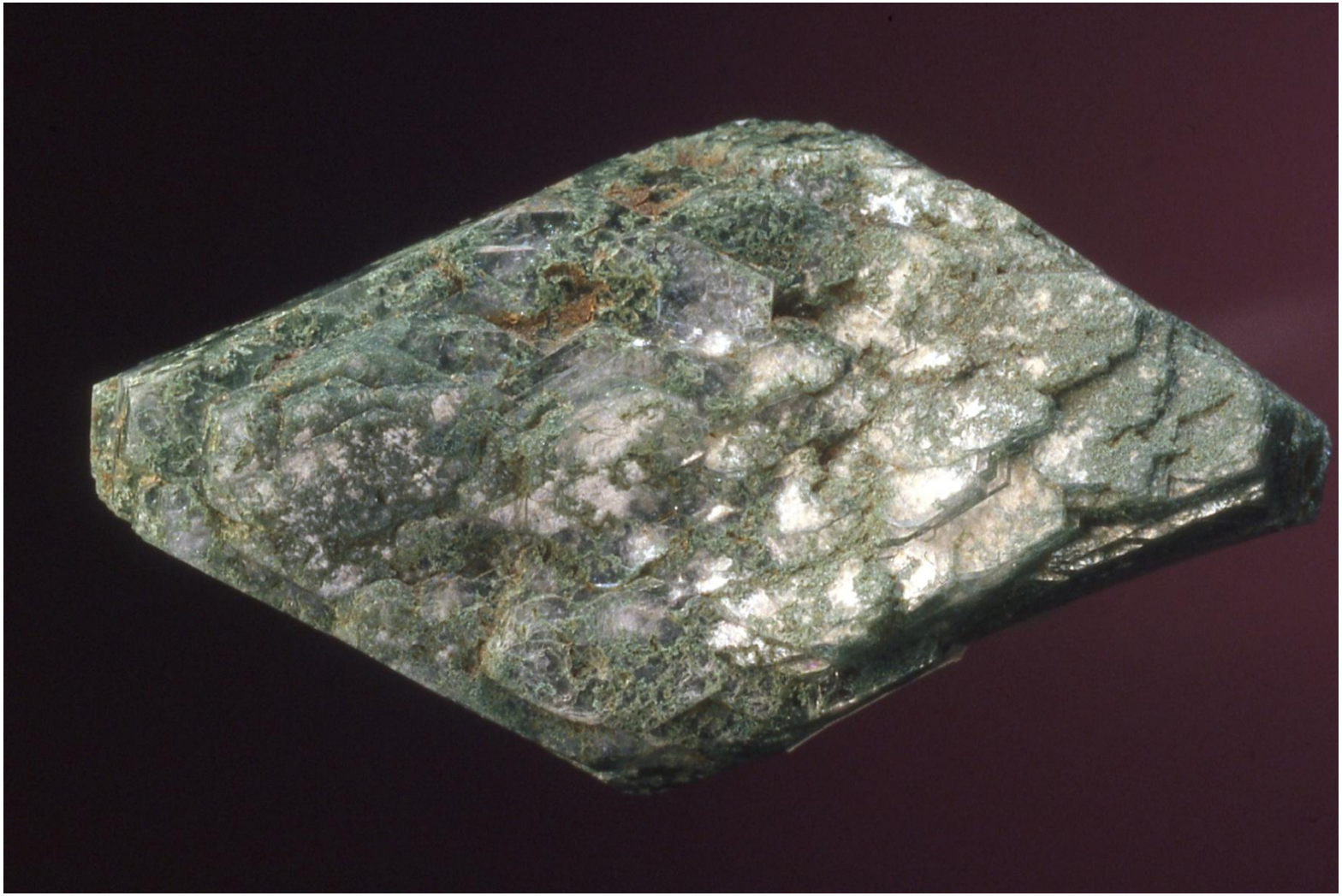
Scovil photo

Spessartine
Shengus, Skardu
Pakistan
12-9-4 (SC 194)

3 cm

Figured specimen (1)

Scovil photo



Scovil photo

Heulandite – Shakur, Maharashtra, India 10-10-5 (SC 170)

4 cm

Figured specimen (1)

Scovil photo

Chabazite – Jalgaon, Maharashtra, India 14-2-35 (SC 211)

3 cm

Brazilianite
Galiléia, Minas Gerais
Brazil
10-2-44 (SC 163)

3 cm

Figured specimen (1)

Scovil photo

Axinite-(Fe)
Polar Urals, Russia
5-4-4 (SC 49)

4.3 cm

Figured specimen (1)

Scovil photo

Pyrite
Morococha, Junin, Peru
5-10-12 (SC 84)

3.54 cm

Figured specimen (1)

Scovil photo

Pyrite
Turkey
15-10-17 (SC 236)

2.5 cm

Figured specimen (1)

Scovil photo

Pyrite
Huanzala, Ancash, Peru
4-10-1 (SC 65)

6 cm

Figured specimen (1)

Scovil photo

Arsenopyrite

Dayu mine
Jiangxi Province
China

21-10-6 (SC 296)

4.7 cm

Apatite-(CaF)
with epitactic spessartine
Shengus, Haramosh Mtns.
Northern Areas
Pakistan
18-10-1 (SC 269)

3 cm

Figured specimen (1)

Jeff Fast photo

Beryl scepter
Teofilo Otoni, Minas Gerais
Brazil
10-2-7 (SC 232)

4 cm

Figured specimen (1)

Scovil photo

Beryl – rare forms
Corrego do Urucum
Galiléia, Minas Gerais
Brazil
11-7-4 (SC 182)
Ex Richard Gaines collection

3.4 cm

Figured specimen (1)

Scovil photo

Quartz, var. smoky
La Furka, Uri
Switzerland
15-10-13 (SC 239)

3.9 cm

Figured specimen (1)

Scovil photo

Casanova photo

Spessartine – Navegadora mine, Minas Gerais, Brazil 18-2-3 (SC 283)

3.5 cm

Figured specimen (4)(5)

Quartz
Synthetic
15-2-36 (SC 225)

4.4 cm

Figured specimen (1)

Scovil photo

Casanova photo

Magnetite – Balmat, St. Lawrence Co., New York 17-11-3 (TN 142)

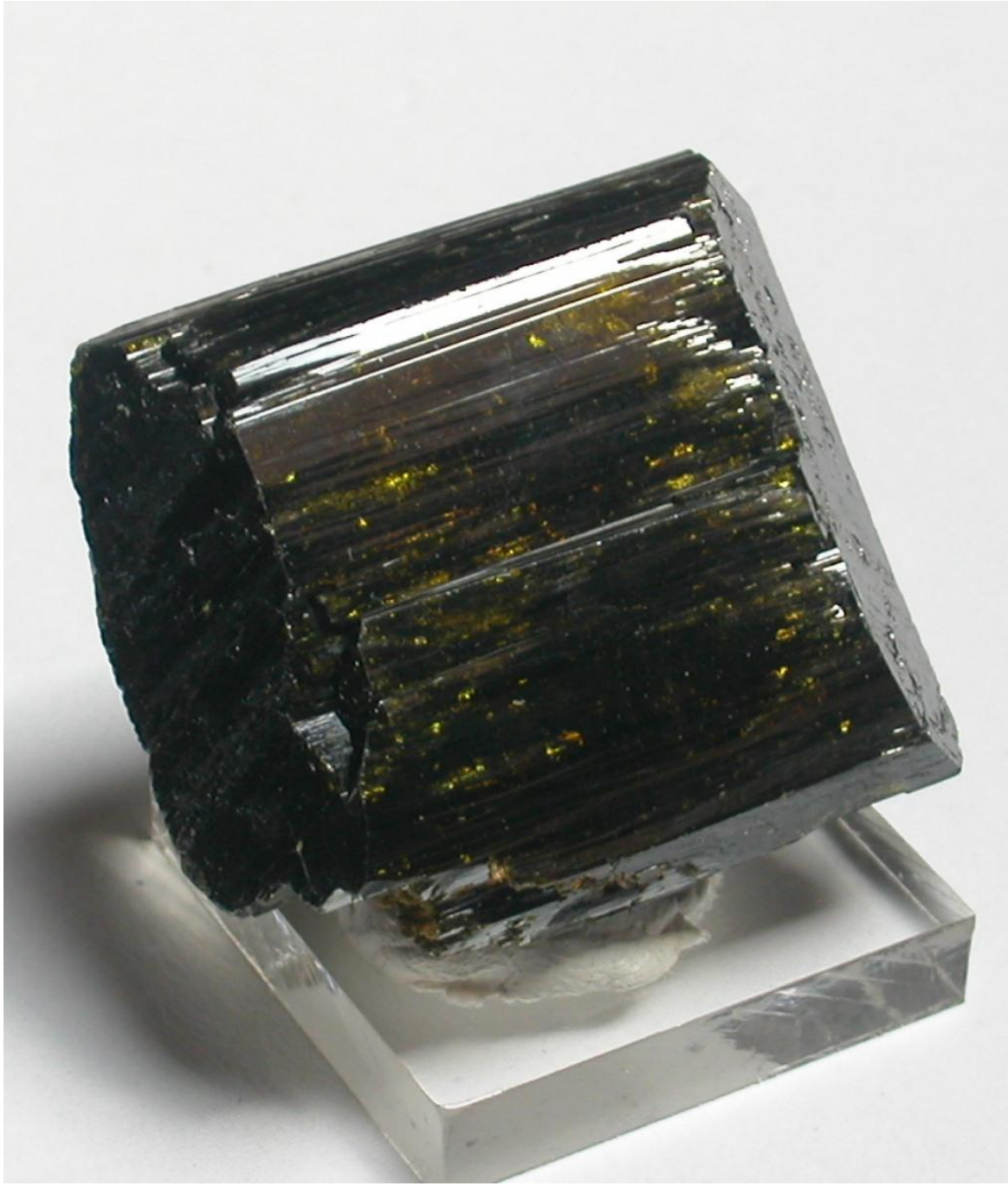
1.8 cm Figured specimen (1)

Almandine – Palkino, Middle Urals, Russia 15-9-15 (SC 235)

2.5 cm

Epidote
Han Dan mine
Hebie Province
China
19-5-1 (SC 272)

4 cm



Kyanite - Baja do Salinas, Minas Gerais, Brazil 16-11-2 (SC 254)

5.7 cm

Cuprite
Rubtsovskoe deposit
Northwest Altai
Russia

21-10-11 SC 294

2.5 cm

Cuprite
Rubtsovskoe deposit
Northwest Altai
Russia

21-2-10 SC 286

2.5 cm

Datolite – Trinity County, California 6-7-25 (SC 108)

5.2 cm

Topaz twin? – Minas Gerais, Brazil 17-11-13 (SC 263)

3.6 cm

Ilvaite

Inner Mongolia
China

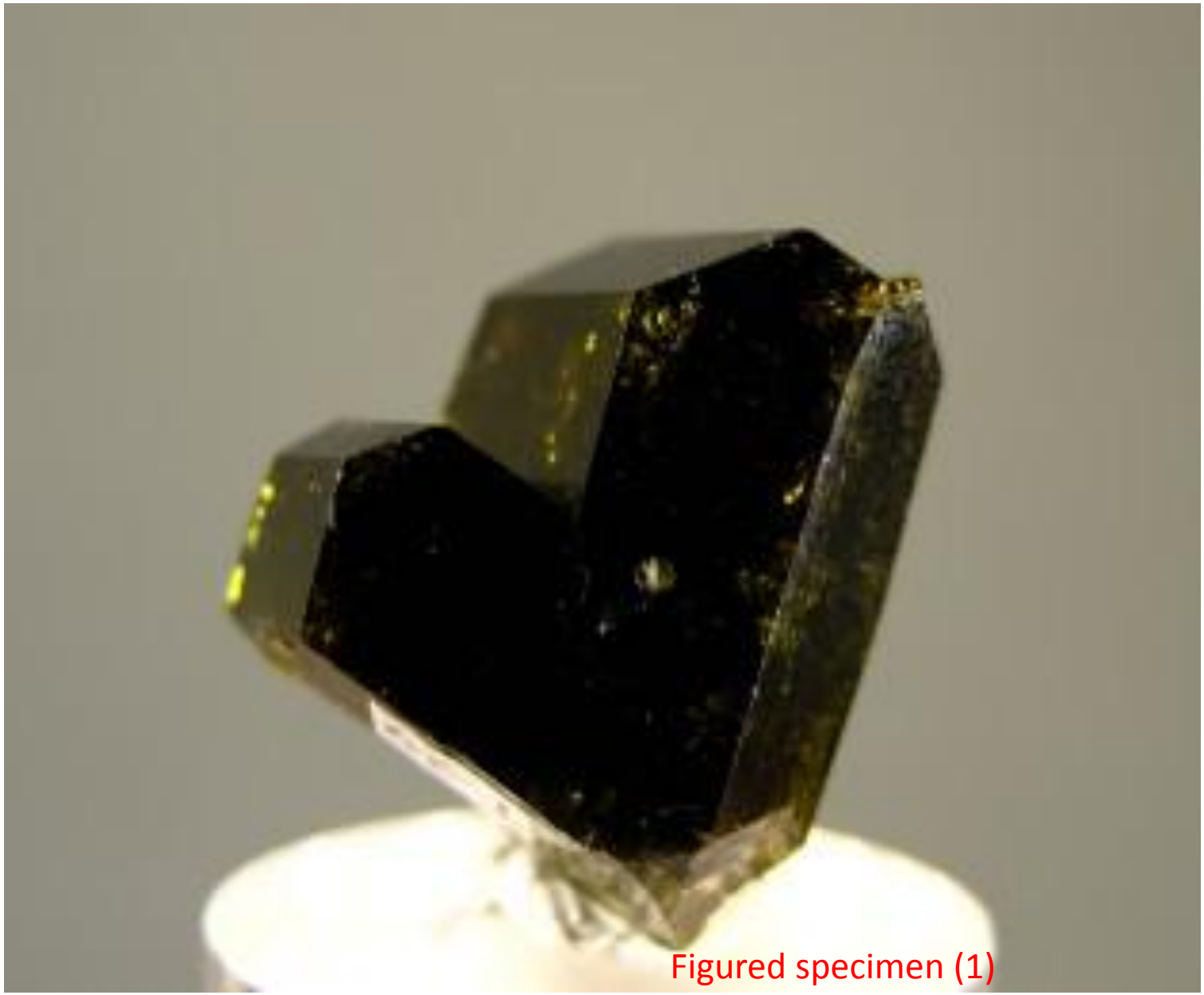
21-10-16 (SC 295)

3.8 cm

TWINS

Rhodochrosite – Mount St. Hilaire, Quebec, Canada – 14-10-1 (TW 58)

2.5 cm



Casanova photo

Epidote – Piemonte, Italy 8-2-18 (TW 29)

Pyrite – rare interpenetration twin of cubes – Peru? 19-7-1 (TW 77)

Rutile
Brumado, Bahia
Brazil
(TW 2)

3.2 cm

Figured specimen (1)

Scovil photo

Staurolite twin
Rubelita, Minas Gerais
Brazil
12-2-41 (TW 48)

3.7 cm

Figured specimen (1)

Scovil photo

Scovil photo

Monazite – Buenopolis, Minas Gerais, Brazil 14-5-8 (TW 57)

2.5 cm

Figured specimen (1)

Titanite
Gamberg, Namibia
12-2-21 (TW 49)

5.3 cm

Scovil photo

Quartz, Japan Law twin – Santa Maria do Jetiba, Espirito Santo Brazil

17-2-2 (TW 66)

Figured specimen (1)

4 cm

Phenakite
Momeik, Myanmar
15-2-24 (TW 61)

2.4 cm

Figured specimen (3)

Scovil photo

Spinel twin
Myanmar
13-2-3 (SC 198)

2 cm

Casanova photo

Scovil photo

Figured specimen (1)

Kyanite
Sangulungulu, Loliondo
Tanzania
20-10-10 (TW 81)

3 cm

Figured specimen

Tennantite – Tsumeb mine, Tsumeb, Namibia 7-1-9 (TW 23)

2.4 cm

Pete Richards photo

Neptunite – Benitoite Gem mine, San Benito Co., California 19-7-6 (TW 78)

3.2 cm

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