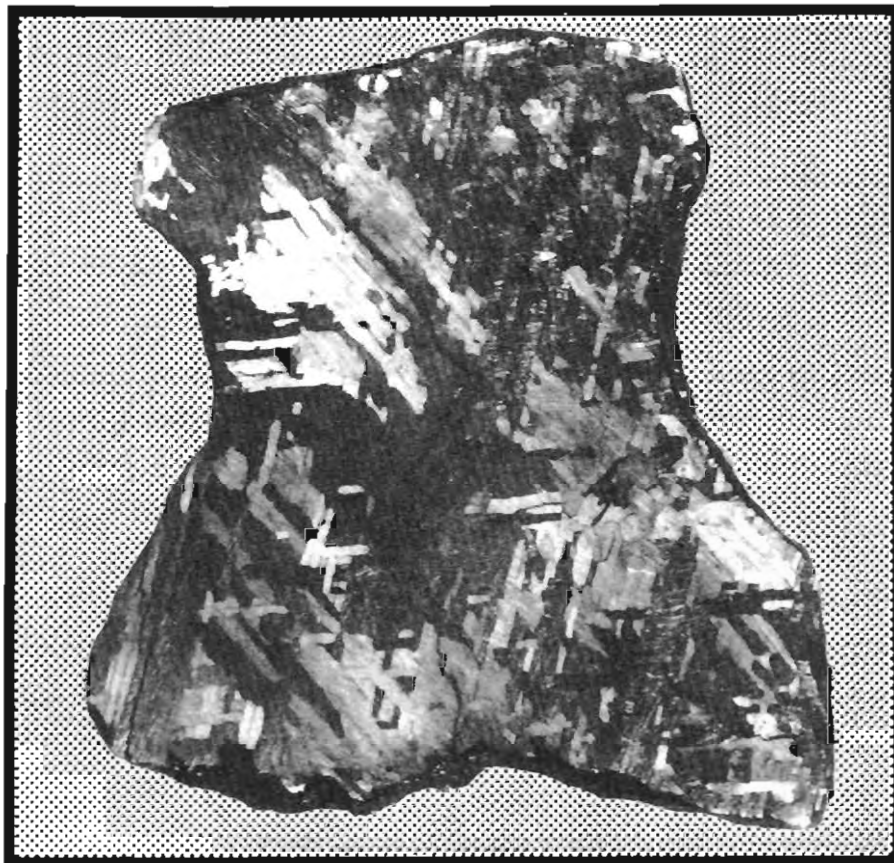


THE ROBERT A. HAAG COLLECTION

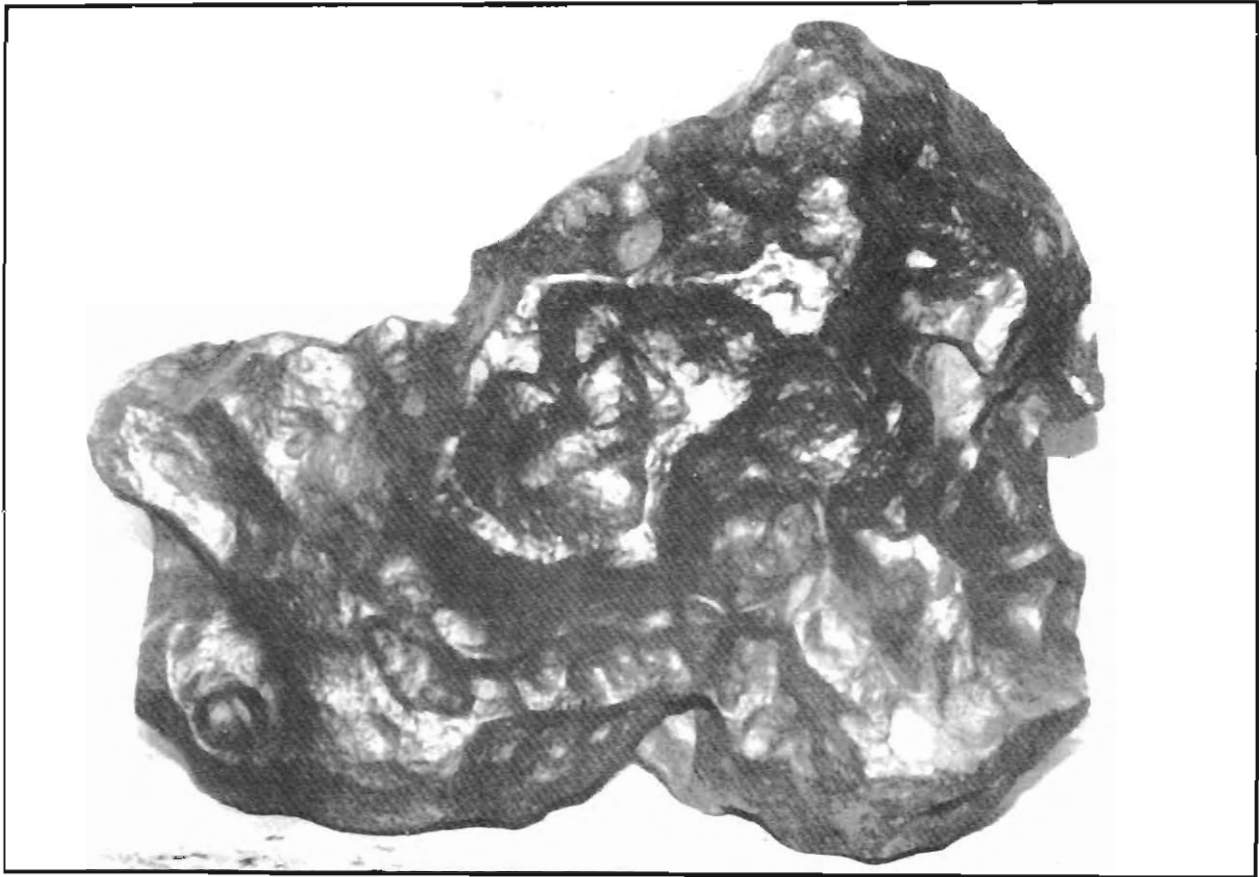
CATALOG
OF
METEORITES

Volume II
1982-1983



Classic Widmanstätten Figures in a Toluca, Mexico slice

*“Meteorites hold within them the secrets of the Universe.
How far they have come; what tales they could tell.”*



Canyon Diablo, Arizona Iron Meteorite 125 pounds

Museum Piece \$10,000

425mm X 300mm X 200mm

Dear fellow Astronomer, Scientist, and Collector,

This is the *New Second Edition* Robert A. Haag meteorite catalog for 1982-83. I have completely updated this edition after a tremendous response to our first catalog, Summer 1982. We sold out of several rarer meteorites, as expected and our stock of irons is depleting fast so please order early or call to check our supply.

I am constantly buying and trading meteorites and I try to keep a good inventory, but in the likely event of a prior sale of your ordered specimen, I can only substitute the *next closest meteorite in shape and weight* (usually a larger or better piece) or refund your money.

Thank you

Shipping

We will ship our meteorites via US Post Office or UPS insured mail. Large iron meteorites weighing over one pound will carry a small freight charge (about 3%).

Prepayment must accompany any order unless special arrangements have been made. School purchase orders are fine. All meteorites carry a full refund, if not delighted, and we guarantee authenticity. Trades and special requests are welcome.

Robert A. Haag — Meteorites — P.O.Box 27527 Tucson, AZ 85726 (602) 882-8804

SOLD OUT OF THESE SIMILAR SIZES, SO I
WILL SUBSTITUTE OVERSIZED TEXAS IRON SPECIMENS
IN THIS SIZE.

IRON METEORITES

Canyon Diablo, Meteor Crater, Arizona — Coarse Octahedrite

This meteor hit the earth approximately 20,000 years ago, at a speed of over 30,000 m.p.h., creating an impact crater of over 4,000 feet across. We were fortunate to acquire a collection of fragments collected years ago. All of these pieces have been wire-brushed clean and are quite attractive. They are available in most sizes.

Fragments

	<i>Weight</i>	<i>Size in mm.</i>	<i>Price</i>
1)	35 grams	20mm x 15mm x 10mm	\$ 10.00
2)	48 grams	25mm x 20mm x 14mm	12.00
3)	60 grams	30mm x 25mm x 18mm	15.00
4)	76 grams	40mm x 25mm x 23mm	20.00
5)	87 grams	50mm x 25mm x 18mm	22.00
6)	93 grams	48mm x 28mm x 19mm	25.00
7)	104 grams	35mm x 25mm x 28mm	28.00
8)	124 grams	50mm x 30mm x 16mm	30.00
9)	137 grams	58mm x 30mm x 33mm	35.00
10)	165 grams	62mm x 33mm x 25mm	40.00
11)	186 grams	74mm x 35mm x 30mm	45.00
12)	192 grams	62mm x 50mm x 27mm	50.00
13)	205 grams	65mm x 40mm x 30mm	52.00
14)	220 grams	66mm x 55mm x 34mm	55.00
15)	245 grams	60mm x 50mm x 35mm	60.00
16)	287 grams	60mm x 42mm x 40mm	68.00
17)	320 grams	60mm x 40mm x 30mm	75.00
18)	374 grams	94mm x 76mm x 26mm	80.00
19)	400 grams	88mm x 43mm x 38mm	90.00
20)	450 grams	88mm x 56mm x 35mm	100.00
21)	520 grams	91mm x 58mm x 40mm	110.00
22)	582 grams	105mm x 70mm x 37mm	120.00
23)	607 grams	70mm x 55mm x 50mm	130.00
24)	647 grams	120mm x 45mm x 47mm	140.00
25)	741 grams	90mm x 58mm x 58mm	150.00
26)	770 grams	90mm x 80mm x 40mm	160.00
27)	840 grams	100mm x 60mm x 55mm	170.00
28)	850 grams	100mm x 56mm x 50mm	180.00
* 29)	937 grams	85mm x 85mm x 55mm	190.00
30)	1071 grams	90mm x 80mm x 70mm	200.00
* 31)	1359 grams	90mm x 60mm x 64mm	250.00
32)	1401 grams	100mm x 75mm x 74mm	260.00
33)	1567 grams	85mm x 70mm x 72mm	280.00
34)	1772 grams	100mm x 90mm x 60mm	325.00
* 35)	1886 grams	110mm x 80mm x 60mm	375.00
* 36)	1975 grams	100mm x 90mm x 73mm	425.00
37)	2222 grams	140mm x 70mm x 65mm	500.00
38)	2700 grams	125mm x 90mm x 76mm	600.00
39)	5000 grams	150mm x 125mm x 85mm	1000.00
40)	7100 grams	208mm x 125mm x 115mm	1500.00
41)	8600 grams	210mm x 125mm x 110mm	2000.00
42)	9000 grams	220mm x 120mm x 100mm	2000.00

IRON METEORITES and TEKTITES

Henbury, Central Australia — Medium Octahedrite

Discovered in 1931. All specimens are in their natural oxidized state.

Weight	Size in mm.	Price
1) 20 grams	34mm x 22mm x 8mm	\$ 20.00
2) 21 grams	24mm x 18mm x 10mm	21.00
3) 21 grams	27mm x 21mm x 12mm	21.00
4) 21 grams SOLD	29mm x 15mm x 12mm	21.00
5) 21 grams SOLD	28mm x 20mm x 14mm	21.00
6) 22 grams	28mm x 18mm x 13mm	22.00
7) 22 grams SOLD	24mm x 23mm x 14mm	22.00
8) 22 grams	40mm x 16mm x 10mm	22.00
9) 22 grams	30mm x 16mm x 16mm	22.00
10) 23 grams SOLD	29mm x 17mm x 14mm	22.00
11) 24 grams	30mm x 22mm x 13mm	24.00
12) 24 grams	24mm x 24mm x 14mm	24.00
13) 25 grams SOLD	27mm x 23mm x 12mm	25.00
14) 26 grams SOLD	29mm x 22mm x 12mm	26.00
15) 28 grams SOLD	31mm x 22mm x 14mm	16.00
16) 31 grams	33mm x 21mm x 10mm	30.00

* - JUST IN... 2.000g size to 50. gram AT \$1.00/gmm

TEKTITES

Indochinite Tektite, Pailin Dist., Thailand

We have a good selection of small specimens exhibiting flow lines and pits, in most shapes.

Weight	Size and shape	Price
1) 6 grams	34mm Teardrop	\$ 3.00
2) 8 grams	34mm Teardrop	3.00
3) 9 grams	36mm Elongated boat	4.00
4) 11 grams	40mm Elongated boat	4.00
5) 12 grams	50mm Elongated boat	4.00
6) 13 grams	30mm Teardrop	5.00
7) 13 grams	45mm Elongated boat	5.00
8) 16 grams	35mm Triangle	6.00

AUSTRALITES

Mt. Dare, South Australia, Australia

Jet black, wind blown, complete buttons describes these specimens.

Weight	Size in mm & shape	Price
1) 6 grams	12mm x 12mm x 7mm Button shape	\$ 10.00
2) 7 grams	13mm x 12mm x 7mm Button shape	14.00
3) 8 grams	13mm x 13mm x 8mm	16.00
4) 9 grams	14mm x 14mm x 8mm	18.00
5) 10 grams	15mm x 15mm x 9mm	20.00

JUST IN - MOLDAVITES FROM CZECHOSLOVAKIA. Beautiful GREEN
GEM QUALITY MOLDAVITES / TEKTITES

STONE METEORITES

Nuevo Mercurio, Zacatecas, Mexico —(H5) Olivine-Bronzite Chondrite

On December 15, 1978, a bright fireball, visible over a radius of at least 200 km., exploded and rained hundreds of small stoney meteorites over an area 10 km. in length. The total weight recovered is about 10 kilos. (Source: *Meteoritics*, Vol. 15, #1, 1980).

Weight	% of fusion crust	Size in mm.	Price
1) 4 grams	80% fusion crust	15mm x 14mm x 9mm	\$ 25.00
2) 7 grams	100% fusion crust	16mm x 16mm x 11mm	30.00
3) 11 grams	100% fusion crust	22mm x 22mm x 9mm	55.00
4) 12 grams	100% fusion crust	16mm x 16mm x 16mm	60.00
5) 14 grams	85% fusion crust	24mm x 15mm x 14mm	70.00
6) 15 grams	100% fusion crust	31mm x 23mm x 12mm	80.00
7) 17 grams	100% fusion crust	31mm x 23mm x 12mm	80.00
8) 20 grams	95% fusion crust	30mm x 20mm x 15mm	100.00
9) 21 grams	75% fusion crust	32mm x 20mm x 20mm	105.00
10) 27 grams	90% fusion crust	25mm x 24mm x 12mm	130.00
11) 29 grams	100% fusion crust	33mm x 21mm x 24mm	145.00
12) 30 grams	100% fusion crust	25mm x 26mm x 25mm	150.00
13) 35 grams	90% fusion crust	45mm x 33mm x 16mm	175.00
14) 53 grams	95% fusion crust	40mm x 33mm x 26mm	250.00
15) 55 grams	95% fusion crust	42mm x 26mm x 22mm	270.00
16) 59 grams	65% fusion crust	58mm x 30mm x 23mm	240.00
17) 63 grams	20% fusion crust	46mm x 28mm x 20mm	290.00
18) 80 grams	60% fusion crust	55mm x 35mm x 21mm	375.00
19) 84 grams	100% fusion crust	44mm x 40mm x 39mm	425.00

Forrest "B" Australia (slices) L6 Olivine Hypersthene Chondrite

Weight	Size in mm.	Price
1) 20 grams <i>Sold</i>	50mm x 19mm x 6mm	\$ 70.00
2) 27 grams	40mm x 21mm x 11mm	80.00
3) 29 grams	34mm x 25mm x 10mm	90.00
4) 29 grams	55mm x 21mm x 7mm	90.00
5) 32 grams	60mm x 30mm x 6mm	100.00
6) 34 grams	55mm x 27mm x 7mm	110.00
7) 45 grams	55mm x 40mm x 9mm	125.00
8) 47 grams	52mm x 45mm x 7mm	125.00
9) 55 grams <i>Sold</i>	51mm x 30mm x 18mm (end piece)	140.00

Beaver, Oklahoma - (L5) Olivine-Hypersthene Chondrite, Recognized October 13, 1981

Total known weight is 25.6 kg.

1) 105.5 gram slice <i>Sold</i>	110mm x 63mm x 7mm	\$315.00
--	--------------------	----------

Allende, Chihuahua, Mexico - C3 Carbonaceous Chondrite

Our supply of this very rare 4.6 billion year old visitor from space is limited to a few selective specimens. Please call for more information and current supply.

* See 2157

IRON METEORITES and TEKTITES

Henbury, Central Australia — Medium Octahedrite

Discovered in 1931. All specimens are in their natural oxidized state.

Weight	Size in mm.	Price
1) 20 grams	34mm x 22mm x 8mm	\$ 20.00
2) 21 grams	24mm x 18mm x 10mm	21.00
3) 21 grams	27mm x 21mm x 12mm	21.00
4) 21 grams SOLD	29mm x 15mm x 12mm	21.00
5) 21 grams SOLD	28mm x 20mm x 14mm	21.00
6) 22 grams	28mm x 18mm x 13mm	22.00
7) 22 grams SOLD	24mm x 23mm x 14mm	22.00
8) 22 grams	40mm x 16mm x 10mm	22.00
9) 22 grams	30mm x 16mm x 16mm	22.00
10) 23 grams SOLD	29mm x 17mm x 14mm	22.00
11) 24 grams	30mm x 22mm x 13mm	24.00
12) 24 grams	24mm x 24mm x 14mm	24.00
13) 25 grams SOLD	27mm x 23mm x 12mm	25.00
14) 26 grams SOLD	29mm x 22mm x 12mm	26.00
15) 28 grams SOLD	31mm x 22mm x 14mm	16.00
16) 31 grams	33mm x 21mm x 10mm	30.00

* - JUST IN... LARGEST SIZE TO 50.gram AT \$1.00/gram

TEKTITES

Indochinite Tektite, Pailin Dist., Thailand

We have a good selection of small specimens exhibiting flow lines and pits, in most shapes.

Weight	Size and shape	Price
1) 6 grams	34mm Teardrop	\$ 3.00
2) 8 grams	34mm Teardrop	3.00
3) 9 grams	36mm Elongated boat	4.00
4) 11 grams	40mm Elongated boat	4.00
5) 12 grams	50mm Elongated boat	4.00
6) 13 grams	30mm Teardrop	5.00
7) 13 grams	45mm Elongated boat	5.00
8) 16 grams	35mm Triangle	6.00

AUSTRALITES

Mt. Dare, South Australia, Australia

Jet black, wind blown, complete buttons describes these specimens.

Weight	Size in mm & shape	Price
1) 6 grams	12mm x 12mm x 7mm Button shape	\$ 10.00
2) 7 grams	13mm x 12mm x 7mm Button shape	14.00
3) 8 grams	13mm x 13mm x 8mm	16.00
4) 9 grams	14mm x 14mm x 8mm	18.00
5) 10 grams	15mm x 15mm x 9mm	20.00

JUST IN - MOLDAVITES FROM CZECHOSLOVAKIA. Beautiful Green
GEM QUALITY MOLDAVITES / TEKTITES

STONE METEORITES

Nuevo Mercurio, Zacatecas, Mexico —(H5) Olivine-Bronzite Chondrite

On December 15, 1978, a bright fireball, visible over a radius of at least 200 km., exploded and rained hundreds of small stoney meteorites over an area 10 km. in length. The total weight recovered is about 10 kilos. (Source: *Meteoritics*, Vol. 15, #1, 1980).

Weight	% of fusion crust	Size in mm.	Price
1) 4 grams	80% fusion crust	15mm x 14mm x 9mm	\$ 25.00
2) 7 grams	100% fusion crust	16mm x 16mm x 11mm	30.00
3) 11 grams	100% fusion crust	22mm x 22mm x 9mm	55.00
4) 12 grams	100% fusion crust	16mm x 16mm x 16mm	60.00
5) 14 grams	85% fusion crust	24mm x 15mm x 14mm	70.00
6) 15 grams	100% fusion crust	31mm x 23mm x 12mm	80.00
7) 17 grams	100% fusion crust	31mm x 23mm x 12mm	80.00
8) 20 grams	95% fusion crust	30mm x 20mm x 15mm	100.00
9) 21 grams	75% fusion crust	32mm x 20mm x 20mm	105.00
10) 27 grams	90% fusion crust	25mm x 24mm x 12mm	130.00
11) 29 grams	100% fusion crust	33mm x 21mm x 24mm	145.00
12) 30 grams	100% fusion crust	25mm x 26mm x 25mm	150.00
13) 35 grams	90% fusion crust	45mm x 33mm x 16mm	175.00
14) 53 grams	95% fusion crust	40mm x 33mm x 26mm	250.00
15) 55 grams	95% fusion crust	42mm x 26mm x 22mm	270.00
16) 59 grams	65% fusion crust	58mm x 30mm x 23mm	240.00
17) 63 grams	20% fusion crust	46mm x 28mm x 20mm	290.00
18) 80 grams	60% fusion crust	55mm x 35mm x 21mm	375.00
19) 84 grams	100% fusion crust	44mm x 40mm x 39mm	425.00

Forrest "B" Austrailia (slices) L6 Olivine Hypersthene Chondrite

Weight	Size in mm.	Price
1) 20 grams <i>SOLD</i>	50mm x 19mm x 6mm	\$ 70.00
2) 27 grams	40mm x 21mm x 11mm	80.00
3) 29 grams	34mm x 25mm x 10mm	90.00
4) 29 grams	55mm x 21mm x 7mm	90.00
5) 32 grams	60mm x 30mm x 6mm	100.00
6) 34 grams	55mm x 27mm x 7mm	110.00
7) 45 grams	55mm x 40mm x 9mm	125.00
8) 47 grams	52mm x 45mm x 7mm	125.00
9) 55 grams <i>SOLD</i>	51mm x 30mm x 18mm (end piece)	140.00

Beaver, Oklahoma - (L5) Olivine-Hypersthene Chondrite, Recognized October 13, 1981

Total known weight is 25.6 kg.

1) 105.5 gram slice <i>SOLD</i>	110mm x 63mm x 7mm	\$315.00
--	--------------------	----------

Allende, Chihuahua, Mexico - C3 Carbonaceous Chondrite

Our supply of this very rare 4.6 billion year old visitor from space is limited to a few selective specimens. Please call for more information and current supply.

** See list*

IRON METEORITE — Canyon Diablo, AZ (continued) - Slices

We were very fortunate to acquire some select Canyon Diablo, Arizona, iron meteorite slices. Each slice has one beautifully polished and etched face showing the Widmanstätten figures. The other side remains rough. Both sides are coated with polyurethane to prevent rust. Limited supply.

<i>Weight</i>	<i>Size in mm.</i>	<i>Price</i>
1) 37 grams	30mm x 25mm x 6mm	\$ 35.00
2) 42 grams	40mm x 35mm x 6mm	40.00
3) 49 grams *	41mm x 32mm x 13mm	30.00
4) 51 grams	35mm x 41mm x 7mm	50.00
5) 53 grams	37mm x 35mm x 8mm	50.00
6) 55 grams	42mm x 30mm x 6mm	55.00
7) 55 grams	45mm x 45mm x 7mm	55.00
8) 57 grams	40mm x 32mm x 7mm	57.00
9) 57 grams	52mm x 33mm x 6mm	57.00
10) 59 grams	56mm x 34mm x 5mm	59.00
11) 60 grams	42mm x 40mm x 7mm	60.00
12) 63 grams	50mm x 25mm x 6mm	63.00
13) 70 grams *	52mm x 30mm x 20mm	40.00
14) 71 grams	60mm x 30mm x 5mm	70.00
15) 76 grams *	50mm x 34mm x 10mm	75.00
16) 81 grams	60mm x 30mm x 8mm	75.00
17) 83 grams	68mm x 35mm x 6mm	80.00
18) 83 grams	65mm x 33mm x 9mm	82.00
19) 84 grams	64mm x 44mm x 6mm	82.00
20) 93 grams	60mm x 45mm x 8mm	90.00
21) 97 grams *	51mm x 23mm x 19mm	55.00
22) 105 grams	52mm x 35mm x 8mm	100.00
23) 108 grams	58mm x 45mm x 7mm	100.00
24) 119 grams	60mm x 45mm x 5mm	110.00
25) 129 grams	65mm x 55mm x 5mm	120.00
26) 129 grams	72mm x 50mm x 7mm	125.00
27) 140 grams	57mm x 34mm x 7mm	130.00
28) 140 grams	100mm x 42mm x 4mm	130.00
29) 151 grams	60mm x 39mm x 10mm	140.00
30) 158 grams	80mm x 40mm x 9mm	150.00
31) 159 grams	60mm x 51mm x 6mm	150.00
32) 160 grams	75mm x 42mm x 11mm	155.00
33) 163 grams	65mm x 55mm x 5mm	155.00
34) 164 grams	60mm x 55mm x 7mm	160.00
35) 166 grams	80mm x 50mm x 6mm	160.00
36) 169 grams	60mm x 52mm x 8mm	165.00
37) 172 grams	70mm x 42mm x 6mm	170.00
38) 182 grams	70mm x 50mm x 7mm	175.00
39) 189 grams	110mm x 54mm x 6mm	180.00
40) 191 grams	110mm x 55mm x 6mm	185.00
41) 200 grams	75mm x 54mm x 8mm	190.00
42) 205 grams	70mm x 50mm x 8mm	200.00
43) 213 grams	90mm x 50mm x 8mm	205.00
44) 218 grams	110mm x 45mm x 7mm	210.00
45) 223 grams	91mm x 70mm x 7mm	215.00
46) 242 grams	60mm x 50mm x 9mm	225.00
47) 243 grams	105mm x 80mm x 6mm	230.00
48) 248 grams	85mm x 45mm x 10mm	235.00
49) 262 grams	70mm x 60mm x 9mm	250.00
50) 306 grams *	60mm x 50mm x 23mm	180.00

* End slice

Robert A. Haag — Meteorites

2990 E. Michigan Dr. PO Box 27527 Tucson, Arizona 85726

Phone (602) 882-8804

CUT HERE

SOLD TO: _____ DATE _____

ADDRESS _____ PHONE _____

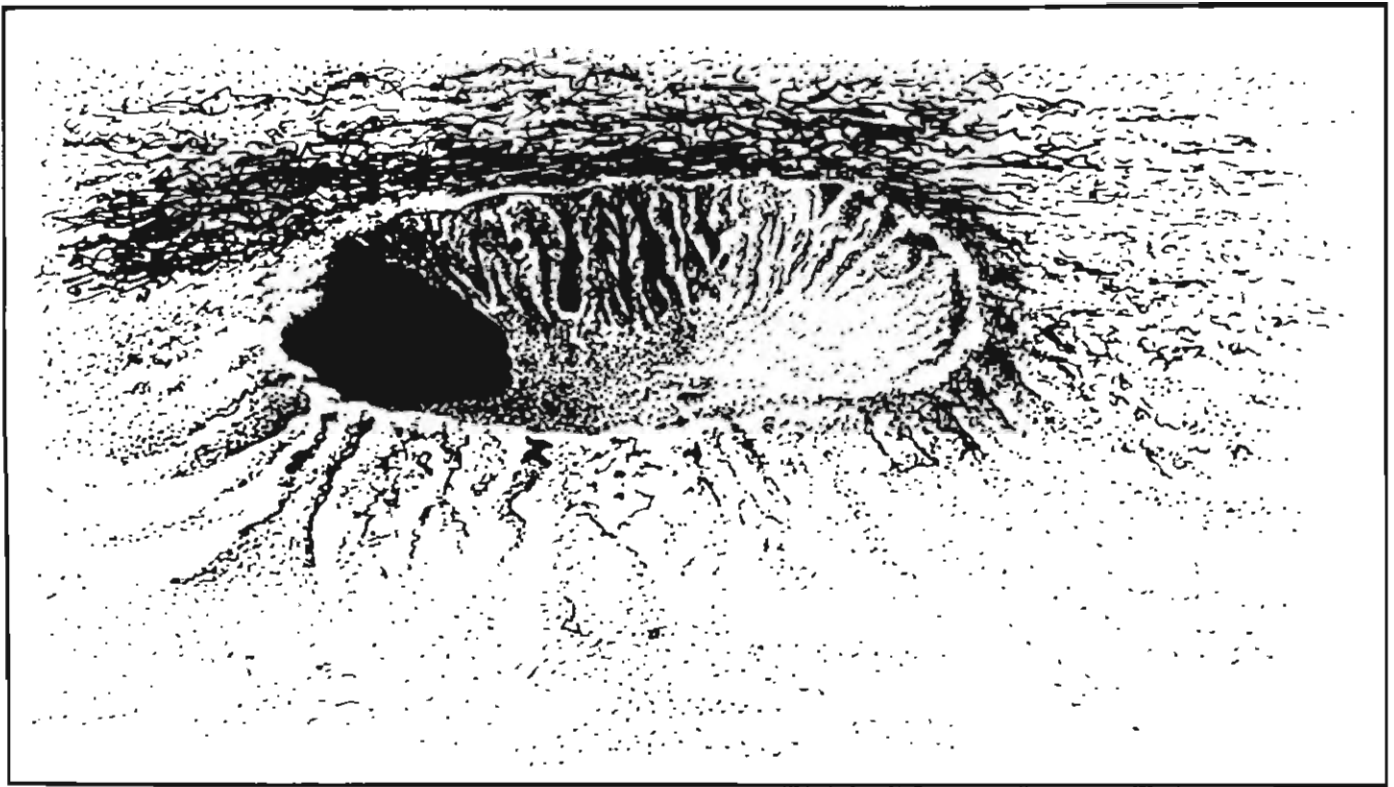
ZIP _____

Quantity	Description (Locality, Size & #)	Price

ORDER FORM
CUT HERE

Total Enclosed _____

CUT HERE



Meteor Crater — Northern Arizona

Robert A. Haag — Meteorites
2990 E. Michigan Drive
PO Box 27527 Tucson, AZ 85726