Founded by prominent collector Allan Lang in 1971, the R.A. Langheinrich Meteorite Collection is one of the foremost private collections in the world. Comprising hundreds of witnessed falls; unique historic documented meteorites — many with original museum numbers and specimen cards; large irons with unusual character; and lunar and planetary material, the collection is internationally recognized as an important reference and research resource. Many specimens were acquired by the collection through institutional trades with the world’s major museums.

Much of the Langheinrich Meteorite Collection is viewable online in the R.A. Langheinrich Museum of Meteorites, and private viewings can be arranged by appointment. Occasionally, specimens from the collection are made available for sale to private collectors and institutions. The specimens shown below will be offered at auction on Saturday, February 4th, 2006 during the Tucson Gem and Mineral Show.

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LOT 1  WITNESSED FALL  
ALLENDE  Large complete fusion-crusted individual
1,667 grams
Stone, CV3.2
Fell Chihuahua, Mexico  February 8, 1969

LOT 2  WITNESSED FALL - MARTIAN METEORITE 
NAKHLA  With Humboldt University Label
6.0 grams
Stone, achondrite, nakhlite
Fell Alexandria, Egypt  June 28, 1911

LOT 3  
WINONA  
10.35 gram fragment
Stone, winonaite (WIN)  Found Coconino County, AZ, USA  1928
<table>
<thead>
<tr>
<th>Lot Number</th>
<th>Description</th>
<th>Details</th>
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</thead>
</table>
| LOT 4      | WITNESSED FALL | **CHANTONNAY**  
17.0 grams  With three collection numbers and historic European labels, including Humboldt University  
Stone, L6  Fell Vendee, France  August 5, 1812 |
| LOT 5      | CANYON DIABLO |  
3,442 grams  Historic iron with natural hole and Nininger # 34.5089  
Iron, IAB  Also comes with original Nininger invoice!  
Coconino County, AZ, USA  First found 1891 |
| LOT 6      | WITNESSED FALL | **MURCHISON**  
36.5 grams  Perfect oriented stone, 100% fusion-crusted  
Stone (CM2)  Victoria, Australia  Fell September 28, 1969 |
| LOT 7      |  | **NWA 2978**  
Impact melt breccia, giant polished slice  
2,230 grams slice with diamond lap finish  300 mm x 380 mm  
Stone, impact melt breccia  Found Sahara Desert |
| LOT 8      |  | **CAMEL DONGA**  
Excellent oriented, fusion crusted specimen  
135 grams  Complete stone, 100% rich glossy fusion crust  
Stone, eucrite (EUC)  Western Australia  Found 1984 |
| LOT 9      | WITNESSED FALL | **ELENOVKA**  
97 grams with fusion crust and museum label #1845  
Stone L5  Fell Donets'k, Ukraine  October 17, 1951 |
LOT 10

**CAT MOUNTAIN**
51 grams  Complete polished slice
Stone, L5 impact melt breccia
Found Pima Co., Arizona, USA   1980

LOT 11

**GUFFEY**
380 gram part slice with polished face 95 mm x 118 mm
Iron, anomalous iron ataxite (IRUNGR ATA)
Found Park County, CO, USA   1907

LOT 12

**DHOFAR 132**
636 grams half end cut with two diamond lap-finished faces
Stone, ureilite (URE)   Found Sahara Desert   2000

LOT 13  WITNESSED FALL

**MENOW**
19.6 grams with fusion crust, British Museum # BM50928
Stone H4
Fell Vorpommern, Germany   October 7, 1862

LOT 14  WITNESSED FALL

**SHELBURNE**
28.1 grams slice with minor fusion crust
Stone L5, brecciated, veined
Fell Ontario, Canada   August, 13, 1904

LOT 15

**NWA 176**  Unique anomalous iron with olivine crystals
68.5 grams  Iron with silicate inclusions, ungrouped
Found near Moroccan/Algerian border   1999
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>16</td>
<td>WITNESSED FALL</td>
<td>KUNASHAK With exceptional 14mm chondrule barred chondrule 348 grams slice with diamond lap finish Stone L6 Fell Chelyabinsk Province, Russia June 11, 1949</td>
</tr>
<tr>
<td>17</td>
<td>FAUCETT</td>
<td>6,055 grams Large stone with one cut and polished face Stone, H4 Found Buchanan Co., Missouri, USA 1966</td>
</tr>
<tr>
<td>18</td>
<td>MARTIAN METEORITE</td>
<td>NWA1110 MARTIAN METEORITE 42.66 grams with fusion crust on two sides Stone, picritic Martian Found North West Africa</td>
</tr>
<tr>
<td>19</td>
<td>WITNESSED FALL</td>
<td>PERVOMAIISKY 98% crusted, museum #249 520 grams Complete fusion crusted stone Stone (L6) Vladimirskaya, Russia Fell December 26, 1933</td>
</tr>
<tr>
<td>20</td>
<td>WITNESSED FALL</td>
<td>BATH FURNACE 38.1 grams with fusion crust Stone L6 Fell Bath County, KY, USA November 15, 1902</td>
</tr>
<tr>
<td>21</td>
<td></td>
<td>LIBYAN DESERT GLASS 1,495.3 large translucent individual Impact glass Found Libyan Desert</td>
</tr>
</tbody>
</table>
LOT 22                  WITNESSED FALL

TENHAM
307.5 grams  98% fusion crust
Stone, L6 veined  Complete crusted stone
Fell Queensland, Australia  Spring, 1879

LOT 23                  WITNESSED FALL

ZHOVTNEVYI
205.7 grams  Very thin, large slice with fusion crust and nice metal veins
Pavlovka, Stalino, Donetsk Province, Ukraine Stone (H5)
Fell October 10, 1938

LOT 24

NWA 2656 TRANSITIONAL ACAPULCOITE
4,100 grams  Found North West Africa, 2003
Stone transitional acapulcoite, winonaite, lodranite

LOT 25

PLAINVIEW
1,660 grams
Stone, H5 brecciated  Found Hale County, TX, USA  1917

LOT 26

NWA 2646                  MARTIAN METEORITE, MAIN MASS
24.17 grams  Main mass of a non-SNC Martian meteorite
Olivine Gabbro  Found, Northwest Africa

LOT 27                  WITNESSED FALL

KERNOUNVE
14.0 grams
Stone, H6
Fell Morbihan, France  May 22, 1869
LOT 28  
**BUR GHELUAI**  
Dupont Collection specimen  
32.8 grams  
Stone, H5 xenolithic  
Fell Bur-Hagaba District, Somalia  
October 16, 1919

LOT 29  
**DAR AL GANI 485**  
Main mass  
235 grams  
Stone, ureilite (AURE)  
Found Sahara, Africa  
1997

LOT 30  
**KABO**  
65.8 grams  
Stone, H4  
Fell Kabo State, Nigeria  
April 25, 1971

LOT 31  
**CANYON DIABLO**  
Historic iron with natural patina and Nininger # 34.5417  
3,679 grams  
Iron, IAB  
Coconino County, AZ, USA  
First found 1891

LOT 32  
**BOVEDY**  
Part slice with excellent chondrules  
10.9 grams  
Stone, L3  
Fell Londonderry, N. Ireland  
April 25, 1969

LOT 33  
**AUSSON**  
8.0 grams  
Stone, L5  
Fell Haute Garonne, France  
December 9, 1858
LOT 34

GIBEON
1,950 grams Iron, IVA Very large complete etched slice
Hardap, Namibia First found 1836 210 mm x 290 mm

LOT 35

WITNESSED FALL

BARWELL
93.6 grams Museum of Natural History, London #32885
Stone, L6 Partially fusion crusted
Fell Leicestershire, England December 24, 1965

LOT 36

WITNESSED FALL

MILLBILLILLIE Excellent fusion crusted specimen
145.4 grams 96% glossy fusion crust
Stone, eucrite (EUC) Complete crusted stone
Fell Western Australia October, 1960

LOT 37

WITNESSED FALL

CUMBERLAND FALLS
26.6 grams Some caramel colored fusion crust
Stone, aubrite (AUB)
Fell Whitley County, KY, USA April 9, 1919

LOT 38

WITNESSED FALL

JUVINAS
13.2 grams Partially crusted fragment
Stone, eucrite (EUC)
Fell Ardeche, France June 15, 1821

LOT 39

LUNAR METEORITE

NWA 032
6.2 grams Stone, lunaite, mare basalt
Found near Kem Kem Plateau, Morocco October, 1999
LOT 40  
**WITNESSED FALL**

**MARION**
31.6 grams
Stone, L6 veined
Fell Linn County, IA, USA  February 25, 1847

LOT 41  
**WITNESSED FALL**

**NUEVO MERCURIO**
86 grams  99.5% fusion crust
Stone, H5  Complete stone
Fell Zacatecas, Mexico  December 15, 1978

LOT 42  

**CAMPO DEL CIELO**  
Unique individual with natural hole
5,174 grams  Sculptural iron with animal-like appearance and large hole
Iron, IAB  Found, Chubut, Argentina  First known 1576

LOT 43

**NWA 1242**
121 grams  Stony-iron mesosiderite (MES)
Found near Gillio, Libya  1985

LOT 44  
**WITNESSED FALL**

**VOUILLE**
45.6 grams  Small amount of crust on edge
Stone, L6 veined
Fell Vienne, France  May 13, 1831

LOT 45  
**WITNESSED FALL**

**THUATHE**
236 grams  98% fusion crust
Stone H4/5  Fell Lesotho  July 21, 2002
LOT 46  WITNESSED FALL

**SUZHOU**
449 grams   50% fusion crust, very fresh
Stone, L6   Part stone
Fell Hubei, China   April 15, 1986

LOT 47

**NWA 2686 MESOSIDERITE**
37.48 grams, polished end cut   Total known weight 546 grams
Mesosiderite (MES)   Found North West Africa

LOT 48

**NWA 2961**
437 grams Saharan stone. Main mass with cut face.
Stone, L3.6   Found Saharan Desert

LOT 49  WITNESSED FALL

**TALAMPAYA**
12.5 grams   Part slice with fusion crust on on edge
Stone, eucrite (EUC)
Found Argentina   1995

LOT 50  WITNESSED FALL

**TIMOCHIN**
9.5 grams   Humboldt University number and old handwritten label
Stone, H5
Fell Kaluga, Russia   March 25, 1807

LOT 51  WITNESSED FALL

**TRENZANO**
4.7 grams   Nininger # 123.2 with original American Meteorite Lab label
Stone, H6 veined
Fell Lombardia, Italy   November 12, 1856
LOT 52

**PLAINVIEW**
329.7 grams  
With historic Nininger # 92.500  
Stone, H5 brecciated  
Found Hale County, TX, USA  
Found 1917

LOT 53

**WITNESSED FALL**

**WILUNA**
41.5 grams  
98% fusion crust with museum painted number 12934  
Stone, H5  
Fell Western Australia  
September 2, 1967

LOT 54

**MASSIVE ORIENTED CHONDRITE**
32,600 grams oriented Saharan chondrite with multiple regmaglypts  
Stone (classification pending)  
Found North West Africa

LOT 55

**WITNESSED FALL**

**PORTALES VALLEY**
141.5 grams  
90% fusion crust  
Stone, H6  
Complete stone with fusion crust  
Fell Roosevelt County, NM, USA  
June 13, 1998

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