



# METEORITE INVESTIGATIONS

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602-282-5522

January 1986

Dear Sir:

Classification and specimen preparation of another new meteorite find has been completed, and this material is now ready for distribution.

This new meteorite will be known as the Guin, Alabama meteorite. One individual specimen was found, weighing 34.5 Kg. Preliminary work on this meteorite has been done by U.C.L.A. and The Enrico Fermi Institute in Chicago. It is a coarse octahedrite to be classified as "Ungrouped," but most closely related to the Group IIE Irons.

Results of this preliminary work will appear this winter as a major journal article in "Earth and Planetary Sciences Letter." The article is entitled, "The Guin Ungrouped Iron Meteorite and Implications for the Origin of Group IIE Irons." The indicated shock origin of Guin gives it a unique and very interesting Widmanstätten pattern. A search of patterns in Iron Meteorites by Buchwald shows no other known meteorites to have Widmanstätten patterns like Guin. The above-described journal article states, "Guin does not belong to any of the 13 major iron meteorite groups." The article goes on to suggest that Guin's history includes impact (hence its shock origin) with a chondritic parent body.

Preparation of specimens of Guin presented unusual problems in cutting and surface finishing due to shock hardening of the material. A new saw had to be designed to do the cutting, and machine shop methods were used for surface finishing. The result is specimens with unusually flat surfaces.

The following finished specimens are available: 229g, 180g, 61g, 58g, 51g, 37g, 26g, 18g, 12g, 10g, and 6g each. This material is available at U.S. \$3.90 per gram. As usual, a color photograph of the uncut meteorite accompanies each specimen.

I look forward to receiving your request. Thank you for your interest.

Yours sincerely,

  
Jim Westcott

JW/aw

BILL TARRANT

RES. 1-602-282-2322

shop 1-602-282-1926



Dear Sir:

Classification and specimen preparation of another few meteorite and has been completed, and this material is now ready for distribution.

This new meteorite will be known as the Guin, Alabama meteorite. One individual specimen was found, weighing 24.2 g. Preliminary work on this meteorite has been done by B.C.L.A. and The Enrico Fermi Institute in Chicago. It is a coarse octahedrite to be classified as "ungrouped", but most closely related to the Group IIE Irons.

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Results of this preliminary work are given in a major journal article in "Earth and Planetary Science Letters" article is entitled, "The Guin Ungrouped Iron Meteorite and its Origin for the Group IIE Irons". The indicated shock origin of Guin gives it a unique and very interesting Widmanstätten pattern. A search of patterns in Iron Meteorites by Buchwald shows no other known meteorites to have Widmanstätten patterns like Guin. The above described journal article states, "Guin does not belong to any of the major iron meteorite groups." The article goes on to suggest that Guin's history includes impact (hence its shock origin) with a chondritic parent body.

Preparation of specimens of Guin presented unusual problems in cutting and surface finishing due to shock hardening of the material. A new method had to be designed to do the cutting, and machine shop methods were used for surface finishing. The result is specimens with

The following finished specimens are available: 150g, 100g, 50g, 25g, 15g, 10g, 5g each. This material is available at U.S. \$1.00 per gram. As usual, a color photograph of the meteorite accompanies each specimen.

I look forward to receiving your request. Thank you for your interest.

Yours sincerely,

*Bill Tarrant*  
The Meteorite