

Antarctic Meteorite Newsletter

Volume 24, Number 2 September 2001



Program News

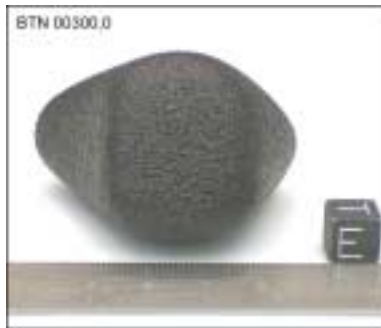
New Meteorites

Dave Mittlefehldt

This newsletter contains classifications for 287 meteorites. Most (262) are for meteorites in the 1999 ANSMET collection that were taken from the Queen Alexandra Range area, but we also have classifications for the first samples from the 2000 field season, which were taken from Meteorite Hills (24), and one for a sample from

Bates Nunataks that appears incredibly fresh (see figure). In fact, it looks so fresh that we decided to count it in the JSC low-level gamma-ray counting facility on the off chance that short-lived cosmogenic radionuclides were still present. We didn't detect any.

For meteorites in the 2000 collection, we are announcing several CM2 chondrites, a CR2 chondrite, several diogenites (some unusual), a eucrite, two howardites, and a plethora of ordinary chondrites. As you might guess, most of the QUE meteorites classified here are LL5 chondrites (181). However, we have also turned up other ordinary chondrites; a small diogenite; a small eucrite; a CR2 chondrite; and an ungrouped chondrite, possibly paired with QUE 94411. In addition, we have three meteorites that are probably paired with QUE 99059 and friends. Avid readers of this newsletter will remember that QUE 99059 brought a classification problem to my attention because it was tentatively paired with three other meteorites that were listed under two different classifications. Based on one opinion contained in a lengthy e-mail, we now classify all seven of these meteorites as "Enstatite Meteorite, Ungrouped." These are clearly unusual meteorites that deserve detailed study. Descriptions are given here for 19 meteorites of special petrologic type.



The newsletter was in press when we received descriptions of several irons from T. McCoy; we added them. Although 26 individuals are listed, these likely represent three different meteorites. Two individuals have been added to the Derrick Peak pairing group, and 24 individuals were recovered from the Meteorite Hills area. One is a meteorite of unusual type represented by a single, small individual. The remaining 23 individuals are tentatively classified as IIIAB and appear to represent a single fall, which may have been recent. The irons were found in what is plausibly part of a strewn field. More details about this are on our Web site at <<http://curator.jsc.nasa.gov/curator/antmet/amn/amnsep01/MeteoriteHills.htm>>.

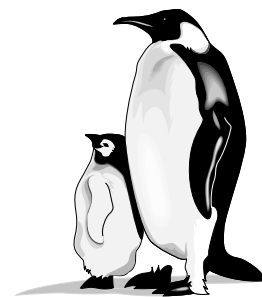
More Program News on page 2.

A periodical issued by the Meteorite Working Group to inform scientists of the basic characteristics of specimens recovered in the Antarctic.

Edited by Cecilia Satterwhite and David Mittlefehldt, NASA Johnson Space Center.

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**Sample Request Deadline
September 28, 2001**

**MWG Meets
October 5-6, 2001**

