

C U R A T O R I A L N E W S L E T T E R	Date: May 23, 1977	No. 15
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LUNA 24

The Sample Information Catalog for the USA Luna 24 samples accompanies this newsletter. The catalog has a table of the sample allocations of materials less than 0.5 mm in size. With only a few exceptions, mainly thin sections, these allocations have been filled. The table should facilitate sharing thin sections, which we encourage.

Sample requests are now solicited from investigators in the United States for studies on the 0.5 to 1 mm and greater than 1 mm particles, which are described in some detail in the catalog. Such requests will be considered at the next LSAPT meeting, June 17-20.

The requests should be specific and identify the particle or particles wanted. The basalts are interesting but rare. Hence, proposals to work on breccias and other material will be welcomed.

Within the next week or so, Dr. Richard V. Morris will be making magnetic measurements (FMR and VSM) on the fourteen >1 mm particles that appear to be recrystallized. These measurements are being made to help assess the degree of recrystallization. The results will be given to LSAPT and will be sent to anyone expressing interest in working on this type of sample.

As announced in the Lunar Sciences Institute's Information Bulletin, there will be a Luna 24 Conference in Houston December 1-3, 1977. Abstracts are due October 10.

APOLLO 14 CATALOG

Recent progress on the new Apollo 14 catalog (to be completed in December 1977) has been (1) to describe the 4-10 mm particles; (2) to map lithologies and clasts on the large slabbed faces of 14311, 14305, 14303, 14306; (3) to prepare summary information about the mission, the preliminary examination, and the initial processing of A14 rocks; (4) to prepare a revised and updated inventory of A14 samples. It has been found that samples 14303 and 14304 are pieces of the same rock. Taken together they weigh 3400 grams which makes this one of the largest Apollo 14 samples returned. Since 14304 has had few subsamples taken (these were during the preliminary examination), whereas 14303 has been allocated extensively, the use of 14304 as a generic will be discontinued. It has been found that 14306 originally weighed 872 grams rather than 584 grams.

In support of the development of the new Apollo 14 catalog it is planned to make thin sections of each of the Apollo 14 samples (listed below) that have not been previously sectioned. The sections also will be available for study by PI's on

request. In addition, it would also be desirable to obtain basic chemistry on these samples, but this will have to be initiated as a PI sample request. Are there any volunteers? In general, it would be desirable to have requests for studies of any Apollo 14 samples at this time so that the sample processing could be concurrent with the studies and processing for the catalog. Please make such requests as soon as possible.

Apollo 14 Samples to be Sectioned

14051	191 gms	14268	23 gms
14041	166 gms	14273	22 gms
14042	103 gms	14173	20 gms
14169	79 gms	14317	16 gms
14267	55 gms	14174	12 gms
14272	46 gms	14281	12 gms
14309	42 gms	14445	9 gms
14316	38 gms	14059	9 gms
14070	36 gms	14078	8 gms
14172	32 gms	14175	7 gms
14170	26 gms	14277	8 gms
14069	25 gms	14280	6 gms

LUNAR SOILS DATA

For completion of a soils survey with consistently measured parameters, forty-six soils samples, mainly from Apollo 16 and 17, were allocated to R. V. Morris and D. S. McKay for FMR measurement of maturity ( $I_s/FeO$ ), magnetic composition ( $Fe^0$  and  $FeO$ ), size distribution, and petrography.

CURATORIAL BRANCH

With the naming of Dr. Michael B. Duke as permanent Chief of the Lunar and Planetary Sciences Division (announced in Newsletter #13, February 1977), the position of Chief of the Curatorial Branch became open. Until a promotion freeze is lifted, the position of Branch Chief will be filled by individuals for no more than 60 day periods. Dr. Patrick Butler, Jr. has been Acting Branch Chief for April and May and will be succeeded by Dr. Everett Gibson.

NEW CURATORIAL FACILITY

Construction was started in mid-March and the foundation for the vault area has been completed as well as piers for the laboratory section. The two-story facility will be attached to the north side of building 31, which houses the present Curatorial facilities. The upper floor of the new facility will have the processing laboratory for pristine (never allocated) samples, which will be adjacent to a strongly built sample storage vault. The vault will contain all of the working sample collection, namely all samples not in Remote Storage (about 15% of the collection), not at PI laboratories, and not on display. Samples returned from PI laboratories also will be stored in the vault in a partitioned area with a separate vault door. The processing laboratory for returned samples will remain in building 31 as will most offices. The Data Center will be on the first floor in the area under the

sample vault. The first floor will also have a separate entrance for public visitors with a display area. A stair will lead from the entrance up to a public viewing room at one end of the pristine processing laboratory.

#### SAMPLE TRANSFERS BETWEEN PI'S

For transfers of samples between Principal Investigators, please follow the procedures given in the Handbook for the Lunar Sample Program (JSC 06090) under 3.2.1b and 4.1.3. It is important to get the transfer forms, signed by the Curator, before making a transfer. Prior permission is necessary for a number of reasons. For example, the proposed recipient PI may not have an approved sample security plan and so may not be eligible to receive lunar samples; or the experiment for which the transfer is to be made would degrade the sample more than the experiment for which the original allocation was made. (In this case, the proposed transfer would have to be handled as a request for sample to the Curator.) Make transfer requests by telephone or by letter (the latter is preferred because it gives time for the necessary checkin

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5 Enclosures

Luna 24 US Sample Information Catalog

Core Catalog, Supplement 3

Corrected page for Supplement 3

Instructions for incorporating Supplement 3 into the Core Catalog

Apollo 11 Catalog (revised). Addendum Sheet 1