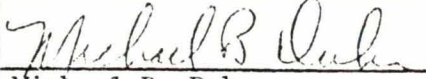


CURATORIAL NEWSLETTER	Date: March 2, 1976	NO. 8
	 Michael B. Duke Lunar Sample Curator	

Shipment of Samples to Remote Storage Vault

Approximately 15 per cent (by weight) of the lunar sample collection, consisting of over 300 discrete samples, has been safely stored in a vault at Brooks Air Force Base in San Antonio, Texas. This portion of the sample collection is intended as an inactive reserve and portions of those samples will not be used for sample allocations; however, only for four core tubes have entire samples been stored there. Material remains available at JSC for all other samples. The completion of this task will allow curatorial effort to focus entirely on sample preparation and descriptive activities. Some potential opportunities are mentioned below.

Apollo 11 Reexamination

In the next 2 months, we will complete a thorough reexamination of the Apollo 11 sample collection and a revised sample catalog will be completed. We have not allocated Apollo 11 samples in a serious way for some time, but with the completion of the reexamination, Apollo 11 rocks will be subject to major processing along with rocks from other missions. If we have denied your requests for Apollo 11 samples previously, and if you are still after those samples, please renew your request.

Apollo 12 and 15 Data Base

LSAPT has reviewed the previous allocations for Apollo 12 basalts and Apollo 15 breccias and has identified the gaps in allocation plans for basic characterization of many samples. What is required are interested petrographers to describe these samples for the first time, analysts for major element analysis and survey age and noble gas determinations. If you wish to participate in these endeavors, please submit a request.

Apollo 17 Cores

Material will be allocated soon for the first time from sections 70007 and 70004 from the Apollo 17 deep drill core. The remaining core sections (70002, 70003, 70005, and 70006) will be several more months in the works. PIs who previously were allocated Apollo 17 core samples are being asked to renew their sample requests. Others who may be interested in the Apollo 17 cores should also request samples at this time. In general, samples from any dissected cores can be provided for approved experiments. If you do not have a Lunar Core Catalog, please write to the Curator.

Active Consortia

A listing of active consortia is attached. The consortium approach continues to appear advantageous to sample study and recently has begun to be applied to meteorite studies (see the ADORABLES, Lunar Science Conference Abstracts).

Sample Containers

Please contact the Curator if you have empty sample containers no longer in use. Many of these are fairly expensive and reusing them saves their replacement cost.

Sample Requests

In late April, following the Lunar Science Conference, special attention will be given to sample requests. We will be able to handle samples from any mission, including sawing if necessary. Deadline for receipt of sample requests is April 20, 1976.

Lunar Science Conference

The entire curatorial staff anticipates a fruitful 7th Lunar Science Conference. We will all be available for discussions of problems during the Conference. Please contact us if you need assistance, or if you wish to visit in the Curatorial Facility.

ACTIVE CONSORTIA

<u>Sample No(s).</u>	<u>Consortium Members</u>	<u>Intention</u>
68815	J.R. Arnold*, F. Horz, R.M. Walker, K. Marti	To define the solar proton flux and spectrum for a spec fix period of geological tin
15265	A.L. Burlingame*, E. Anders, N. Hubbard, I. Friedman, I. Kaplan, C. Moore, J. Reynolds, R. Schmitt, J. Schopf, G. Wetherill	Study of lunar carbon and light element chemistry in lunar breccias
International Consortium on 77135, 77115, 77075 & 77215	E.C.T. Chao*, J. Philpotts, J. Geiss, M. Tatsumoto, E. Anders, M. O'Hara, P. Butler, M. Fuller	The systematic and coherent study of these samples throu mapping, descriptions, petro graphy, chemistry, rare gases dating and magnetics.
International Consortium on 67455 & 67475	E.C.T. Chao*, D. Nava, J. Geiss, M. Tatsumoto, M. Fuller, P. Price, A. El Goresy, G. Reed, G. Simmons, F. Schwerer	To gain insight into the pro cess of development of regoli breccias.
12054	J. Hartung*, J. Arnold, D. Brownlee, G. Comstock, A. Dollfus, R. Gibbons, L. Haskin, F. Horz, R. Housley, J. Mandeville D. Morrison, T. Plieninger, M. Rhodes, O. Schaeffer, E. Schonfeld, S. Solomon D. Storzer, R. Walker, E. Zinner, H. Zook	Study of micro craters to determine exposure history, chemical composition, cosmi ray depth profiles and the exposure geometry of the sample.
73215 73255	O.B. James*, E. Anders, W. Compston, G. Eglinton, R. Burns, L. Haskin, I. Kaplan, T. Kirsten, K. Marti, P. Price, L. Silver	To gain insight into the pro cesses of ejecta formation, transport, deposition and co solidation associated with basin-forming impacts.
67435	K. Keil*, W. Ehmann, R. Schmitt	Origin of spinel troctolite and the formation of the lu crust.
Cooperative Study group for samples 60009 60010	D.S. McKay*, D. Bogard, D. Blanchard, W. Gose, R. Morris	A study of vertical variati in the lunar regolith by a variety of techniques applic to the samples & size separ in order to more fully unde stand the evolution of the regolith.
75081	W.G. Meinschein*, J. Geiss, R. Clayton	To provide insight into the processes that control the distribution of noble gases nitrogen and carbon at the lunar surface.

*indicates consortium leader.

<u>Sample No(s).</u>	<u>Consortium Members</u>	<u>Intention</u>
61175	D. Nava/S. Winzer*, J. Philpotts, E. Anders, M. Tatsumoto, J. Geiss	To gain further insight into the formation of breccias and clasts and to further an understanding of the nature and history of the lunar crust.
Apollo 17, Station 6 Boulder 76015, 76215, 76235, 76255, 76275, 76295, 76315	W.C. Phinney*, D. Strangway, D. Blanchard L. Haskin, N. Hubbard, M. Rhodes, L. Nyquist, C. Simonds, J. Warner, D. Morrison, D. Bogard, E. Gibson, W. Gose, U. Clanton, P. Butler, G. Heiken, L. Silver, G. Turner, E. Anders	To help define a model of impact melts on the lunar surface Define further the original crustal material of the Moon.
15435 15601 60016	C.T. Pillinger*, S. Agrell, G. Eglinton, P. Signer, Schultz, M. Maurette, A. Dollfus, J. Schoon, G. Turner	To enhance the knowledge of the composition of lunar soil by a detailed study of lunar carbon systematics.
67915	E. Roedder*, R. Pepin, E. Alexander, V. Murthy, L. Haskin, R. Clayton, J. Smith, B. Powell, D. Anderson, J. Warner, P. Weiblen	Geochemical study of a highland breccia
12013	G.J. Wasserburg*, A. Albee, R. Schmitt, D. Burnett	Reexamination of the petrology & mineralogy in an attempt describe & date this sample.
15205 15206	G.J. Wasserburg*, J. Reynolds, M. Rhodes, R. Walker, P. Baedeker	Refinement of the complex ex- posure history of these samples
Apollo 17, Station 2, boulders 72315, 72335, 72355, 72375 72395, 72415, 72435	G.J. Wasserburg*, A. Albee, R. Schmitt, K. Marti, P. Price, E. Anders, D. Strangway	Boulder consortium characteriz- ing the petrologic, chemical, isotopic & physical properties of the suite.
Imbrium Con- sortium 14064, 14082, 14312, 14318, 15405, 15445	J.A. Wood*, J. Adams, E. Anders, M. Dence, L. Haskin, J. Head, N. Hubbard T. McCord, G. Reed, M. Tatsumoto, R. Walker	To study the excavation of the Imbrium Basin and the nature of the Pre-Imbrium lunar crust.

*indicates consortium leader.