

[circa Summer, 1964?]

ASCA

Dr. Rainey

Re: ASCA News Bulletin

Letters have been sent to various persons at centers of technical research, for current synopsis' of work

However, am doubtful of immediate response due to summer vacations, etc. We came up with the idea that persons such as McGinnes at Ariz., Glock at Macalester, Keck at NYU, Giddings at R.Isl, and Aitken at Oxford, would probably like to send in brief reports on their work, and have them in a news bulletin on techniques. Therefore, we're hoping they'll supply us with the information we want to make the bulletin more national.

Will be in the office all of Friday...for any questions or such.

Jeannette Flamm

Dr. Rainey

UNIVERSITY of PENNSYLVANIA

PHILADELPHIA 19104

*Wharton School of
Finance and Commerce*

WILLIAM GOMBERG
Professor of Industry

May 19, 1970

Miss Elizabeth Ralph
Applied Science Center for Archaeology
BW-4 David Rittenhouse Laboratory

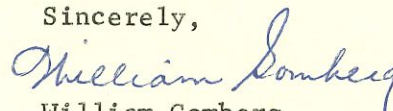
Dear Miss Ralph:

Sometime ago an article appeared in the periodical, Science, on the research problems of universities. The author made the point that universities were ill-equipped to do team research, and that those charged with research responsibility in areas of knowledge requiring team research should arrange to have it done at other kinds of Institutes.

The Research Committee of the University of Pennsylvania, headed by Professor Robert Davies, has designated a Sub-committee on Team Research with myself as Chairman to look into this problem. The Associate Provost, John Hobstetter, has supplied me with a list of University Institutes who presumably have some experience with this kind of research. The Sub-committee on Team Research has been holding meetings with the directors of these Institutes to find out what particular problems they have had to meet and how they have faced them. Inasmuch as you head one of these Institutes, I want you to know that I will be contacting you either during the summer or the fall to ascertain whether you would be willing to share your experiences with us and what would be a convenient date for you to meet with the Sub-committee.

I do hope that your response will be favorable.

Sincerely,


William Gomberg

WG:rem

UNIVERSITY of PENNSYLVANIA

PHILADELPHIA 19104

(215) 594-6843

December 7, 1972

PAUL R. RUBINCAM, JR.
Director of Conferences

1925 House
3940 Locust Walk

Miss Elizabeth K. Ralph
Applied Science Center for Archaeology
University Museum

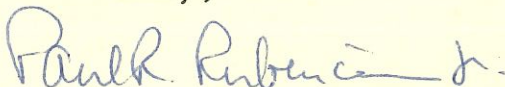
Dear Miss Ralph:

If any of the organizations with which you are associated is looking for a conference site, I would appreciate your calling attention to the facilities and services available here at Pennsylvania.

It is in the University's interest economically to make the maximum use of its \$260 million physical plant 12 months of the year. Happily, our facilities and environment lend themselves ideally to the conference requirements of many scholarly and scientific societies, and we are always delighted to be their hosts.

I enclose a brochure describing what we have to offer such organizations. After reading it, will you please keep it on hand -- and call me if you know of a situation in which we may be of service? Additional copies are available for you or members of your staff upon request.

Sincerely,



Paul R. Rubincam, Jr.
Director of Conferences
Extension 6843, 6844, 6845

PRR/lm

(Enclosures)

UNIVERSITY of PENNSYLVANIA

PHILADELPHIA 19174

PATRICIA W. MEYERS

Corporate and Foundation Relations
The Franklin Building
3451 Walnut Street I6

March 14, 1975

Dr. Elizabeth K. Ralph
Associate Director of Museum
Applied Science Center for Archaeology
BW 4 DRL/E1

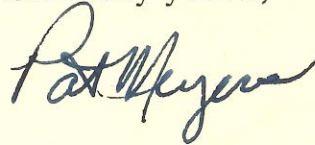
Dear Dr. Ralph:

Thanks so much for all the helpful information which you shared with Stuart Carroll and me on Monday. The organizational chart for MASCA is especially enlightening. The budgets for the renewal for the NSF grant to the MASCA and the budget, also to NSF, for the carbon-14 research are also very useful to have.

You reported that funding for the MASCA (Museum Applied Science Center for Archaeology) is now firm through February of 1977. However, you are interested in exploring the possibility of contingency funds, should they become necessary. It would be greatly helpful to us if you would provide some written statements about three or four projects which you consider priorities and which might be of interest to foundations. I know that Stuart Carroll and I would be most happy to explore some foundation possibilities with our research staff when we have received these documents from you.

It was good talking with you again. I'm particularly glad that Bill Stephens sent his greetings. Please tell him hello for me.

Cordially yours,



PWM:rmh

cc: Stuart H. Carroll

Darrel

*Inst of Ecol & EE Ing
212-644-7875*

**EUGENE H. KONE
PUBLIC RELATIONS**

280 KNOLLWOOD DRIVE
NEW HAVEN, CONN. 06515

TELEPHONE
203: 387-1460

March 23, 1976

MEMORANDUM TO THE RECORD

Concerning the Mud Brick Hut Project

I spoke today to Brian Sullivan, science reporter for the Associated Press. He has talked with Dr. Rainey about the mud brick hut story and had actually planned to go to Philadelphia last week but the AP suddenly pulled him off to do other stories and he had no alternative but to cancel.

He intended to call Dr. Rainey this afternoon. Dr. Rainey is leaving for Guatemala on Thursday and will return early in April. I asked Sullivan if he could handle the story with the research Burbank Associates has already provided plus a couple of telephone calls but he is anxious to visit MASCA and see the lab in action.

I gave him the name of Dr. Darrell Butterbaugh as his contact at MASCA as well as Dr. Elizabeth Ralph. He cannot go to Philadelphia this week but may be able to do so next week.

Concerning NSF and minidocumentaries. Susan Sherman, who was Al Rosenthal's assistant at NSF and is in charge of all film production, says that the 5-minute minidocumentary on the search for the bristlecone pine is virtually wrapped up and will be released soon and promises to send me a print. She says that another on Ban Chiang is definitely scheduled but will have to be produced in the new budget year after July 1st. She will be in touch with us along the way. Michael Wakely will probably do the Ban Chiang film as well as having done the one on the bristlecone pine.

- cc: Dr. Froelich Rainey
- Mr. David Crownover
- Dr. Elizabeth Ralph ✓
- Dr. Darrell Butterbaugh
- Mr. Kershaw Burbank, Jr.

EHK/dh
E. H. Kone

*Called 3/31/76 "Hold up"
EKR*

MASCA - OBJECTIVES

1977 - 1978

THERMOLUMINESCENCE

- (1) Pursue promising experiments in the dating of thermally altered flints.
- (2) Continue studies and tests of the causes of deviant TL dates, such as determinations of firing temperatures, susceptibilities, composition of tempers, etc.
- (3) Dating of stratified series of pottery from archaeological sites in collaboration with the excavators.

SENSING-NEAR AND REMOTE (GEOPHYSICAL PROSPECTING)

- (1) Develop a portable, simplified, and inexpensive, prospecting instrument for archaeologists' use, possibly based upon electromagnetic principles.
- (2) Explore use of satellite images for finding previously undetected sites. The feasibility of this has been demonstrated by Chris Hamlin in Iran.

INFORMATION CENTER

- (1) Continue publication of MASCA Newsletters twice yearly.
- (2) Compile more references to pertinent techniques, both for use in MASCA and for responses to numerous inquiries.

"MUD BRICK" PROJECT - Experiments directed toward the preservation of mud bricks, limestone, sandstone, marble, and other structural and sculptural materials.

- (1) Continue assessment of previous tests and conduct additional ones at Hasanlu, Iran, Quirigua and Tikal, Guatemala; also, archaeological sites in New Mexico and Arizona as well as local sites.
- (2) Experiments and tests of treatments for marble with possible application to the preservation of the Parthenon in Athens.
- (3) Application of new polymers to palaces in Morocco.

¹⁴C DATING AND DENDROCHRONOLOGY

- (1) Dating of stratified series of samples from archaeological sites in collaboration with the excavators.
- (2) Continue the dating of bristlecone pines and the search for older trees buried in alluvial fans in the White Mountains of California. Revise calibration curves and tables with the addition of new data. (These projects are currently supported by the Earth Sciences Division, NSF).
- (3) In connection with the problems of dating Egyptian samples, study the fractionation of reeds, both from the Nile and Jordan Rivers. Solicit well-dated mummy wrappings and samples of grain as controls.
- (4) Develop conchiolin-carbonate-dating methods by using shells from archaeological sites, based upon deterioration rates of the organic conchiolin component in relation to the stable calcium carbonate. Also, correlate temperature and cyclic growth in shells. Establish a pilot center for ecological studies (changing economies of native

populations) based on molluscs collected at archaeological sites.

LASERS

A proposal for the continuation of the bristlecone pine project has recently been submitted to the Earth Sciences Division. Included in this proposal, is a request for equipment, etc. to experiment with laser enrichment of natural ^{14}C . This has the possibility of reducing the counting uncertainty by 10-fold as well as doubling the range of ^{14}C dating.

Since this type of equipment is quite new, there may be unforeseen applications of this technique that are appropriate for MASCA to pursue.

In conjunction with this and for use with the other ^{14}C dating studies a new mass spectrograph designed for isotopic ratio measurements is being acquired.

MAY 30 1978

TO: Jim Hobbs
FROM: Vivian Hasiuk

Dr. Ralph has informed me that there are stacks of computer printout lining the halls in the basement which present a fire hazard. It would be appreciated if this material could be removed as soon as possible.

Many thanks.

cc: E. Ralph ✓