



# AMERICAN RESEARCH INSTITUTE IN TURKEY

71 - 7 KENNEDY CADDESİ  
KAVAKLIDERE - ANKARA  
TEL : 17 45 84

## TURKEY

2 February 1974

Dr. Elizabeth K. Ralph  
MASCA  
University Museum  
33d and Spruce Streets  
Philadelphia, Pa. 19174

Dear Beth:

Here is something by way of an interim report on what I've been doing since the digging ended at Gordion five months ago. As you can see, a good deal of the initial work lay in trying to get people in various government or academic branches to communicate with each other. The meteorology people are generally unaware of what the forestry people are doing. The latter are unaware of what the archaeologists are doing, and so forth.

Since last month, when I typed this summary, I have received samples from the following additional sites: Yenidogan (Persian, 6th century B.C.); Kalinkaya (Late Chalcolithic/Early Bronze Transitional, i.e., somewhere between 3000 and 2500 B.C.); Eski-yapar (Hellenistic). I have also received promises of timbers from Byzantine structures. Much of this material cannot be used at the present because there are just too many gaps in the chronology. The first millennium A.D. is particularly devoid of wood or charcoal specimens, and until more appear, I will have to be content with adding to the eight-century floating record at Gordion. At the moment I have about two thousand years' worth of floating chronologies ranging from the present to the 21<sup>st</sup> century B.C.

*find some, that is*  
I've also given a lecture (in Turkish) on dendrochronology to 25 new museum assistants who were on their way to posts in regional museums throughout Turkey. They have instructions to keep their eyes peeled for old wood and to send samples to Ankara when they do. Of particular interest is the program of mosque renovation which should assure us of samples that were cut as far back as the 12th century A.D. During the annual ICOM meeting, all luncheons were held in the laboratory (I was asked to clear out for the better part of a week). But the equipment remained, and a lot of museum people got a close look at it. One result has been some unsolicited samples...samples that I didn't even know existed. So, slowly, we make progress.

Merry New Year to you and all the MASCAns.

*Sincerely,*  
*Peter*  
Peter Ian Kuniholm

*The dendro chronograph is still holding up, although I may have to get the screw-heads re-bored. Did Ellen tell you that I had to pay customs a \$200. deposit to guarantee its re-export to the USA?!*



# AMERICAN RESEARCH INSTITUTE IN TURKEY

71 - 7 KENNEDY CADDESİ  
KAVAKLIDERE - ANKARA  
TEL : 17 45 84

**TURKEY**

3 February 1974

Dr. Froelich Rainey  
University Museum  
33d and Spruce Streets  
Philadelphia, Penna. 19174

Dear Dr. Rainey:

Here is an interim report on what I've been doing since the digging ended at Gordion five months ago. (I've already sent copies to Rodney Young and Beth Ralph.) As you can see, a good deal of the initial work lay in trying to get people in various government and academic branches to communicate with each other.

Since last month, when I typed this summary, I've received samples from four more sites, one of them in the 2500-3000 B.C. range. I've also given a lecture (in Turkish) on dendrochronology to 25 new museum assistants who were on their way to posts in regional museums throughout Turkey. They have instructions to keep a sharp eye out for old wood and to send samples to Ankara when they find any. Of particular interest is the program of mosque renovation that should assure us of samples that were cut as far back as the 12th century A.D. The religious people have been surprisingly cooperative so far, and I hope it lasts.

The MASCA equipment is holding up well, although the dendro-chronograph may need to have its screw-threads re-bored. I had to pay the Turkish customs a \$200. deposit on it as surety that I would take the thing back to Penn with me! (They valued a \$1500 machine and microscope at \$100. and two Sears sanding machines (cost=\$10. each) at \$50. apiece. Ah, the mysterious East!)

I was in such a hurry to get on the boat last spring that I didn't have a chance to thank you for finding the funds with which I purchased that used microscope, also the increment borers. But that gear was a godsend. So thank you very much, indeed.

Merry New Year to you and all the people in the Big Office.

*Sincerely,  
Peter K.*

Peter Ian Kuniholm

*Beth  
ASCF -  
Please return*

DESCRIPTION OF RESEARCH PROJECT IN TURKEY 1973-1974:  
THE DENDROCHRONOLOGY OF GORDION AND THE ANATOLIAN PLATEAU

Using the 806-year sequence of tree-rings provided by the logs in the Midas Mound Tumulus at Gordion as a starting point, I have been trying to build a relative (and eventually, perhaps, an absolute) master tree-ring chronology for the Anatolian Plateau. With the cooperation of the Turkish Department of Antiquities and Museums, I have set up equipment (provided by MASCA at the University Museum, Philadelphia,) for tree-ring analysis in the laboratory of the Museum of Anatolian Cultures in Ankara. Over 110 wood and charcoal samples have been collected at the museum during the past five months, and more are promised.

The Turkish Department of Forestry and its Research Institute have supplied information about modern long-lived trees throughout Anatolia. The oldest sample I have collected is 404 years old, and I have just been informed of the arrival of a 750-year old sample at the forestry station at Saimbeyli. This work with modern trees has interested Prof. Burhan Aytug of the Forestry Faculty of Istanbul University who has said he will start assigning dendrochronological theses to his students so that Anatolia can be studied on a regional basis. The Turkish Meteorological Service has also shown interest in this project as its records do not antedate 1926. The climatological information provided by systematic collection and analysis of specimens from all over the plateau should enable the Service to make better projections of past climatic conditions.

The Department of Religious Foundations and its Conservation Section have donated a XVth century timber from a mosque door and have promised more Ottoman and even Selcuk examples from their 1974 restoration season. Old houses in the Ankara citadel are being searched for old timbers. This should assure an extension of the tree-ring chronology well into the first millennium, A.D.

Samples have come from the following archaeological excavations: Gordion (Phrygian and Persian periods); Boğazköy and Eskiypar (both Phrygian); Adilcevaz (Urartian, from a palace erected by King Rusa II, 685-645 B.C.); Maşat (Late Hittite); and Aemhüyük (Kultepe Ib period). Samples from Kültepe have arrived in Ankara and are to be delivered shortly. Pieces from the Phrygian tumuli at Ankara are also promised.

Both Hacettepe University and the Middle East Technical University in Ankara are setting up radiocarbon laboratories. Dr. Mehmet Ergin, the director of the Hacettepe laboratory has assigned one of his assistants to help me twice a week and to learn as much as he can about dendrochronology. Dr. Ergin hopes to have as many samples as possible tree-ring dated before they undergo radiocarbon analysis. We would like eventually to be able to provide a check on the bristlecone pine corrections to radiocarbon dating.

All this is necessarily a long-term project. We will need many Byzantine and Roman samples if we are ever to achieve an absolute chronology. But the machinery of the collection, analysis, and storage system is in operation, and as the "wood library" builds up and the ring readings are filed (some 16,000 so far), local and regional patterns are becoming more recognizable. I expect to be able to supply evidence of cross-dating between sites within the present academic year.

February 13th, 1974

Peter Ian Kuniholm  
American Research Institute in Turkey  
71-7 Kennedy Caddesi  
Kavaklidere  
Ankara, Turkey

Dear Peter,

Many thanks for your letter of February 2nd and report. It sounds as if you are making excellent progress. I hope that you can find some reliable assistants to help with the mountain of work that you are accumulating. We shall use your report for fodder in our next grant proposal.

If you need to have the dendrochronograph repaired, I think that we could afford to pay for it. Let us know how much and we'll have Ellen send it to your bank if that is the best way to reimburse you.

Ellen, Henry, Kathleen and I send our best regards.

Sincerely yours,

Elizabeth K. Ralph

cc. Dr. Froelich Rainey



## AMERICAN RESEARCH INSTITUTE IN TURKEY

71 - 7 KENNEDY CADDESİ  
KAVAKLIDERE - ANKARA  
TEL : 17 45 84

**TURKEY**

14 March 1974

Dear Beth,

I've written the U. of Chicago Press both in London and Chicago to try to get a copy of Libby's RADIOCARBON DATING<sup>2</sup>, but they say it is out of stock. If you should ever happen to find a spare one, we would be glad to pay for it.

Now that the Middle East Technical University and Hacettepe University have set up C-14 labs, they are subscribing to RADIOCARBON, but they don't have back issues. Do you have any friends at Yale who might be willing to give ARIT a break if we order all the back volumes? Yale is, after all, an ARIT member (although this year, pleading poverty, Yale and Columbia paid only one membership between them, thus cutting our budget by \$2500.)

Enclosed is a note about our address. The second line should be scratched because of a funny new law which says that "Türk-" cannot be used in a title of an organization without special governmental permission. (!)

Thank you for your kind offer about dendrochronograph repair. Lately it has been working well, but if it gets sick again I'll take it to have the screw rebored.

Regards to all the MASCAS. Henry may be amused to know that Bryant Bannister still hasn't come through with the Gordion data that he promised to make available over a year ago. I guess the only way to acquire it will be to go to Arizona and camp on his doorstep this summer.

With kind regard,

Peter Ian Kuniholm

Dr. Elizabeth K. Ralph  
MASCA  
University Museum  
33d and Spruce Streets  
Philadelphia, Pa. 19174

March 26, 1974

Peter Ian Kuniholm  
American Research Institute in Turkey  
71-7 Kennedy Caddesi  
Kavaklidere, Ankara  
Turkey

Dear Peter,

Thanks for your letter of March 14th. By airmail book-post, I have sent you a copy of Libby's Radiocarbon Dating, 2nd edition - we had an extra copy.

I talked to Mr. Kra (copy of letter enclosed), and she will try to get Yale to send you the back issues of Radiocarbon, but she is not sure that she will be successful. However, there is no harm in trying.

Perhaps, Henry can bug Bryant Bannister into sending you the Gordion data.

I am busy writing a new round of grant proposals plus doing a little work in the C<sup>14</sup> lab.

With best regards,

E. K. Ralph

EKR/klh  
Enc.

52/10/74 58



## AMERICAN RESEARCH INSTITUTE IN TURKEY

71 - 7 KENNEDY CADDESİ  
KAVAKLIDERE - ANKARA  
TEL : 17 45 84

**TURKEY**

Dr. Elizabeth K. Ralph  
MASCA  
University Museum  
33d and Spruce Streets  
Philadelphia, Penna. 19174

11 Nisan 1974  
April

Dear Beth:

Your copy of Libby's RADIOCARBON arrived safely yesterday. Many thanks. And thank you, too, for writing Mrs. Kra. We have our fingers crossed.

I have already begun to supply the radiocarbon laboratory at Hacettepe University (Dr. Mehmet Ergin, who worked at the C-14 lab. in Glasgow) with dendro-dated samples taken from 50 year intervals. Last week I came back from the mountains west of Gordion with a big radial section of P. nigra cut in 1966 that has well over 600 annual rings on it. After it dries out, I'll measure it and then pass samples along to the local labs. It is the longest modern ~~piece~~ <sup>series</sup> I've collected yet.

ARIT has renewed my fellowship for a year and has appointed me Director of the Ankara Branch, so if any MASCANS are coming through Turkey in 1974-75 we have our library, beds, kitchen, and maid service available.

We expect to be in the USA this July. I plan to drop by Phila. and report in. I would also like to spend a week or ten days at the Tree-Ring Lab. in Tucson, checking signals with Bannister and co. I wrote BB this morning to ask whether it would be convenient. I think that going there is the only way I'll be able to pry the Gordion statistics away from him. I'd also like to show him and Ferguson the computer programs I've had written here (by former Turkish students of mine who are now computer specialists.) Would a roundtrip airfare from Maine to Tucson be something that I could ask the NSF for? I'll bring along all the data so that the pros can criticize it. It would be nice to know that I am on the right track. (Or if I'm off the track, how to get back on it.)

With kind regard,

Peter Ian Kuniholm

April 17th, 1974

Mr. Peter Ian Kuniholm  
American Research Institute in Turkey  
71-7 Kennedy Caddesi  
Kavaklidere - Ankara  
TURKEY

Dear Peter,

Glad to hear that Radiocarbon arrived and that you are making more progress.  
Congratulations upon being appointed Director.

As for ~~the~~ NSF funds, they are mostly committed for summer field work.  
However, if other people's grants come through to support our travel  
expenses, we would have funds available for your trip from Maine to  
Tucson. At the moment, nothing is definite.

With best regards,

Elizabeth K. Ralph



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Dr. Elizabeth K. Ralph  
MASCA  
University Museum  
33d and Spruce Sts.  
Philadelphia, Pa. 19174

**TURKEY**  
29 July 1974

Dear Beth:

Off to Turkey tomorrow!

1. Thank you again for the NSF help. The check arrived on Saturday. When I give credits, should I mention the number of the NSF grant? Or just "NSF via MASCA" or just MASCA? NSF via MASCA helped me in 3 specific things:

- the acquisition of that second-hand microscope last year
- the travel to Arizona and back this year
- the acquisition of that 40-inch increment borer

Were these all from the same kitty? I just wanted to give thanks where it is due. And of course nothing would have happened if you hadn't aided and abetted.

2. I called the Forestry Suppliers, Inc. in Jackson, Miss., to see whether they had one of those 40-inchers in stock. (They don't, but they have them on order.) I am writing them to ask them please, when they receive the formal order from you, to expedite the thing as much as possible so that Charlie Gates can bring the ~~thing~~ <sup>borer</sup> out in October. Ellen Kohler knows of his doings, so that when and if the ~~thing~~ <sup>borer</sup> arrives at the Museum, she can snag him and make him put it in his suitcase.

3. Could you advise me on the following? I expect to have a number of specific results to report by Christmastime when the AIA meeting takes place in Chicago. No ~~paper~~ dendrochronology paper has been given at an ~~meeting~~ old world archaeology meeting other than Bannister's preliminary report in Moscow 13 years ago, and I doubt whether many people have noticed that. Calling this work to people's attention would ensure the continued turning in of samples in Turkey and the possible beginning of similar work in Greece, Cyprus, and elsewhere. Is the NSF the place to go to ask for a travel grant? The information I would bring crosses disciplinary boundaries and should be of interest to a spectrum of people. If you think a proposal to the NSF is advisable, would you be willing to be a referee? I've never seen an NSF proposal, much less written one, but I've read the booklet you gave me, and I think I could qualify for their help.

4. I just found out that my colleague Prentiss de Jesus and Gary Carribeau are doing the same thing via different routes. Prentiss is dating slags using archaeomagnetism. Will get Prentiss to write Gary.

Sincerely,  
Peter Kuruhon

Turn all  
electric  
typewriters!

August 5, 1974

Mr. Peter Kuniholm  
American Research Institute in Turkey  
71 - 7 Kennedy Caddesi  
Kavaklidere, Ankara  
TURKEY

Dear Peter,

It would be a good idea to mention the NSF grant specifically, especially in any publication. It is number GS - 36308 X.

About the AIA meeting, I called the NSF to save time, and the news is bad. They have very little travel money and what they might have next year is already committed through November 1975.

Perhaps it would be best for you to finish another year of work and then give your report the following year.

With best regards,

Elizabeth K. Ralph

EKR:dw



# AMERICAN RESEARCH INSTITUTE IN TURKEY

71 - 7 KENNEDY CADESI  
KAVAKLIDERE - ANKARA  
TEL : 17 45 84

**TURKEY**

Forestry Suppliers, Inc.  
Box 8397  
Jackson, Mississippi 39204

21 August 1974

Dear Sirs:

By now you should have received a purchase order from the University Museum at the University of Pennsylvania (33d and Spruce Streets, Philadelphia 19174) for the following:

40-inch increment borer (Cat. No is, I think, 63325) and list price is \$299.00.

Before I left the U.S.A last month, I telephoned Jackson to see whether there were any in stock and was informed that a number were on order.

When the borers arrive, could I please have this order expedited? A colleague of mine is coming from the University of Pennsylvania to Turkey in October, and he will be able to bring the borer with him. Otherwise, we will have to rely on the international mails which are very chancy in these troubled times and also expensive, as I will then have to pay 100% import duty on the borer.

Thank you in advance for your attention to this request.

Sincerely yours,

Peter Ian Kuniholm  
Director

Copy to Dr. E. K. Ralph  
MA SCA  
University Museum  
33d and Spruce Sts.  
Philadelphia, Pa. 19174

Dear Beth:

The computer center at Middle East Technical University here has just given me a job number and is punching my programs from Arizona. Also give me the cheap rate which is \$173.11 an hour for computer time which I think is pretty good by U.S. standards. They have an IBM 360 but are switching to an IBM 370/135 next month. Selams, Peter

Charles Gates  
up Discharge  
Ladwyn, Pa.  
19035

or your info.

V.V.  
11/20/75

Mrs. Eleanor Kuniholm  
~~Mrs. GORDON MERRIAM~~  
BLUEBERRY FARM  
DAMARISCOTTA, MAINE 04543  
207 - 563 - 2919

23 August  
1974?

Dear Miss Ralph,

Thank you for sending the coreborer which arrived a day or two ago, and for the letter with description. I'm hoping to get back to Ankara with no problems, though I still can't get reservations from Istanbul. I hope that will be cleared up as soon as the dust settles around

Cypress.

Thank you again.

Sincerely,

Ellie

mailed core borer  
8/15/74 - United Parcel

Blueberry Farm  
Damariscotta  
Maine 04543

Dear Miss Ralph, (207) 563-3919

Thank you for your telegram.  
As I told the man on duty who  
answered the telephone (I forgot  
about the Museum's being  
closed on Monday) when I  
called today, I can take  
the core borer to Turkey  
with me when I fly there the  
end of the month.

If you'd write a note explaining  
that it's for scientific purposes  
it might help with the Turkish

Blusberry Farm  
Doverchester  
Maine 04243  
DOT 3-3119  
customs, though I'll probably  
be able to get it through  
by telling them it's a tooth-pick,  
as Pat termed a javelin he  
brought back from Beirut to Podet College  
once years ago.

Thanks again. I hope  
the rest of your summer is fine.

Sincerely,

Eleanor (Kuniholm)

P.S. Please give my best to  
Miss Kohler.

26 January 1975

Dear Beth:

We are off to Turkey tomorrow, having been delayed for 10 days by Susan's bronchitis.

Thank you for lunch/drinks/\$help on my trip down to Philadelphia. I hope that Mr. Bevan Whatshisname was suitably impressed by the activities of MASCA and that he makes a nice report to the Powers That Be in Washington. If NSF does renew its grant, I would like to apply for some computer time. I have no assurance that IBM will give me any free time, and it may be that I'll have to raise the funds myself.

By the way, I've used these extra days in the USA to give expanded versions of my dendrochron. talk at Bowdoin College and at the Peabody Museum at Harvard. Lamberg-Karlovsky at the latter says he wants me to come back and do it again for a larger audience. We'll see.

Tell Kathleen that she will receive my contribution to the MASCA Bulletin shortly.

NOTE re. the Gordion wood samples and their radiocarbon dating: I found that the piec@s in the Gordion garage had been used under the axles of the truck during the winter and that they had been impregnated with axle-grease and motor oil. I remember that the Penn. pieces were fairly clean, but a double-check might be in order.

All our best to all of you.

With kind regard,



Peter Ian Kuniholm

# The Municipal Association of South Bristol

SOUTH BRISTOL, MAINE

BETH: For Your INFO.

23 July 1975

Mrs. Renee S. Kra, Managing Editor  
Radiocarbon  
Box 2161, Yale Station  
New Haven, Conn. 06520  
U.S.A.

Dear Mrs. Kra:

About a year ago we ordered from you a large batch of back issues of Radiocarbon. To date, none has arrived, and I am beginning to get worried.

I have been to the Turkish postal authorities, but they say nothing of the sort has arrived and that I should make enquiries at the other end. Do you know when the journals were sent off? Can you put a tracer on them?

Thank you in advance for your help in this.

With kind regard,



Peter Ian Kuniholm  
Director

✓ Copy to Dr. Elizabeth K. Ralph  
MASCA  
University Museum  
33d and Spruce Streets  
Philadelphia, Pa. 19174



## AMERICAN RESEARCH INSTITUTE IN TURKEY

71-7 KENNEDY CADDESI  
KAVAKLIDERE - ANKARA  
Tel : 17 45 84 - TURKEY

7 April 1976

Dear Beth:

Thanks, love. Ellen informs me that you told her I could continue to use the MASCA equipment that I have had out on loan for these last three years. That is extremely generous of you. Under the circumstances, I think I should pay the 800. lira repair that was done last fall to the dendrochronograph out of my own pocket. Does that sound about right?

The computer people at Middle East Technical University are going to give me a tape of my catalogued program to take to Cornell with me, thus saving the nuisance of lugging along all those cards. I don't know yet what kind of machine Cornell has.

Cornell has offered me a visiting assistant professorship in the classics dept. (2/3 time). This means that they can kick me out at the end of next year, but Miss Mellink says my job is now to make myself so darned indispensable that they will have to find some reason for keeping me on. The fact that I am a part-time type means that I will have the time to carry on the dendrochronological work ....I guess I should write an NSF proposal. And I am also setting about getting permission from the Turkish authorities to export wood and charcoal for assembly-line analysis. That kind of project might enable me to stay at Cornell if enough people get interested in it. I would hope to rope in undergraduates to do some of the slave labor. Certainly it won't have to be a one-man project as it has been for these last three years.

Question: Did you have much trouble getting permission from the US health authorities to import wood samples from abroad? Ancient ones should be no problem, but modern ones might cause difficulties. Anyway, the details can wait until I finish my thesis. And I am going to stay here until that is done.

Here is a resumé of my European lecture trip for you and Henry. It went very well, I think.

By the by: that set of Radiocarbon that I ordered over a year ago (with you helping to get us the discount) still has not arrived. I have written Renee Kra twice about it, but still there's no answer. Maybe its half-life is such that it disintegrated before it got here.

Cheers to all the MASCOANS...it will be nice to be so close next year.

*Peter*

# UNIVERSITY of PENNSYLVANIA

PHILADELPHIA 19104

*The College*

DEPARTMENT OF PHYSICS

April 28, 1976

Mr. Peter Kuniholm  
American Research Institute in Turkey  
71-7 Dennedy Caddes;  
Kavaklidere, Ankara  
TURKEY

Dear Peter:

Thanks for your letter of April 7th. That is good news about your position at Cornell. I think that they have an active program in forestry which should help. If you are planning to submit a proposal to the Earth Sciences Division of the NSF, the deadlines are May 15, and September 15, etc. The Earth Sciences have more money than the Social Sciences.

I have enclosed a copy of our permit for the importation of soil samples. This may help with your wood.

I just talked to Renee Kra, and she is quite sure that the volumes of Radiocarbon were mailed to you about a year ago. Maybe they are in the "dead-letter" file in Ankara.

With best regards,

E.K. Ralph

EKR:ks



## AMERICAN RESEARCH INSTITUTE IN TURKEY

71-7 KENNEDY CADDESI  
KAVAKLIDERE - ANKARA  
Tel : 17 45 84 — TURKEY  
XXXXXX  
26-97-00

19 July 1976

Mrs. Renee S. Kra  
Managing Editor, Radiocarbon  
Box 2161 Yale Station  
New Haven, Conn. 06520  
USA

Dear Mrs. Kra:

My predecessor, Peter Kuniholm, ordered from you a number of back issues of Radiocarbon in 1974, and although the order was paid, as I understand, none of these issues has ever arrived here. Needless to say, we would still like very much to have these issues. I would appreciate your advising me as to what has happened, and as to what the possibilities are now for receiving our Radiocarbons.

With thanks for your help, I remain

Sincerely yours,

*Charles Gates*

Charles Gates  
Director

✓ cc: Dr. Elizabeth K. Ralph  
University Museum  
Philadelphia, PA 19174

(Peter suggested that I  
send you his carbon.)  
-16

Sent by  
H. Tuchmann,  
Radiocarbon  
7/29/76



# AMERICAN RESEARCH INSTITUTE IN TURKEY

71 - 7 KENNEDY CADDESI  
KAVAKLIDERE - ANKARA  
TEL : 17 45 84

**TURKEY**

30 November 1975

Dr. Elizabeth K. Ralph  
MASCA  
University Museum  
33d and Spruce Streets  
Philadelphia, Penna. 19174  
U.S.A.

Dear Beth:

By the time this letter reaches you, more or less, I'll be on my way to the USA. I stop off in Vienna to talk to a joint meeting of the Austrian Archy. and Anthro. Societies. Then on the way back there will be another joint meeting at the Institute of Archaeology in London (with the BIAA), a lecture at the Inst. of Art and Archaeology at the Sorbonne (invite just arrived from Jean DesHayes who is now Vice Pres. of the place), then four in Münster, Hamburg (Dr. Dieter Eckstein is president of the Tree-Ring Society), Göttingen, and Berlin. Leningrad and Moscow are as yet indefinite. All these lectures give me a chance to spread a little MASCA propaganda as well as a chance to find out what European dendrochronologists are doing. The lectures will be in the local language with the exception of the USSR. I haven't had Russian for 19 years and just can't cope with it. They'll have to find a translator. I would like to meet Kolchin, who has sent me his Novgorod book.

The dendrochronograph died earlier this month, so I took it down to the machine shop and had the screw re-bored. Surprise: it cost only \$54 instead of the \$72 they quoted a year ago. Anyway, it works as well as it ever did. The new IBM-370 at Middle East Technical University is a vastly superior machine to the old IBM-360. Both my programs have been catalogued, thus avoiding the cost of running the program cards through the mill. The Physics Dept. continues to give me time free (over an hour, so far), and my indexed curves look a heck of a lot better than they did a year ago. My first article (co-authored by Lee Striker of Penn's History of Art Dept.) went off to the printer in September just before I came down with hepatitis. This last unexpected and unwelcome distraction has thrown a real monkey-wrench into my schedule but I think I have something that will be of real interest in Washington. Hope you have time to hear it: 28th of Dec., section 2A, paper #2. About 1:30 P.M. (Maybe that is the section you are chairing?) The programs haven't gotten here yet.

Anyway, see you soon!

Peter [KUNIBLM]