

Serial: 3602  
14 Jun 54

Dr. Stewart B. Cairns  
Head, Department of Mathematics  
University of Illinois  
Urbana, Illinois

Dear Dr. Cairns:

In accordance with your employment as Consultant (WAE) with this Agency you are hereby requested to perform mathematical research in a field which is of interest to us. The nature of this research has been agreed upon by you and representatives of the Office of Research and Development of this Agency. You will communicate the results of your work, in whatever manner or form you deem appropriate, to the above Office.

It is estimated that you will be able to perform this assignment in approximately fifty (50) working days; however, this figure should not be considered a limit. It is expected that you will have completed this assignment by September 30, 1954. It is also anticipated that you may consider it advisable to make one or more trips to Washington to confer with Agency personnel on your work. In such case you are requested to inform us of your plans, as far in advance as possible, so that travel orders may be prepared for you.

For administrative purposes we must have written statements of the dates and hours you work. These statements and those concerning your planned visits should be sent to:

Director, National Security Agency  
Washington 25, D. C.  
ATTN: R/D (34).

Sincerely,

L. H. FROST  
Captain, US Navy  
Chief of Staff

cc: AG  
C/S  
S/ASST(M<sup>r</sup> Friedman)  
34  
PERS (Ens. Williams)

M/R: At the request of the Mathematical Research Division Prof. Cairns is going to complete several papers on mathematical topics pertinent to cryptology.

I. T. McDonald/60493/11June54/can