

Attention was given chiefly to the investigation of the chloral condensation products of cellulose on which a good deal of research work was done. The subject is a complex one and the investigation will be continued.

Refining of Waste Paper Stock. Object: To develop the best method of recovering good paper stock from the condemned paper currency withdrawn from circulation by the Department of Finance: to ascertain if this method can be profitably practised on a commercial scale.

Refining of the stock produced under normal cooking conditions was carried out and, by the exercise of great care and the use of a special washing equipment, it was found possible to recover an absolutely clean pulp. The work will be continued on a commercial scale, applying the information obtained at the Laboratories to the large equipment in Ottawa. Paper-making trials and the construction of a washing unit of sufficient size will also be involved.

In addition to the above several other investigations were undertaken: the sulphite pulping qualities of water-killed spruce were determined; a method of utilizing groundwood screenings by reducing them in a beater to a pulp of commercial quality was developed and awaits mill-scale trial; the fundamentals involved in the testing of pulps for strength were further investigated. Special attention was given also to paper fibre analysis and, in co-operation