

CARLETON COLLEGE

NORTHFIELD, MINNESOTA

DEPARTMENT OF CHEMISTRY

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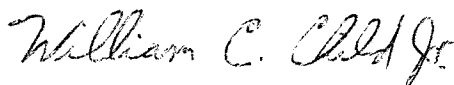
Professor W. C. Oelke
Department of Chemistry
Grinnell College
Grinnell, Iowa 50112

Dear Professor Oelke:

Thank you for the copies of New Experiments in Physical Chemistry which you sent recently. The experiments on NMR look very interesting, and I hope that in about a year's time we will have an NMR spectrometer on which to try them out.

The experiment on heat of combustion seems to me to be well done. I thought you might be interested in a twist to this experiment which I have tried for several years now in my Thermodynamics course. Enclosed is a copy of the problem which I pose to the students. The question of whether or not the biphenyl double-ring system has extra resonance stabilization because of a coplanar system adds considerable interest to the experiment in my experience. I think it adds extra purpose to the experiment, and you might want to consider putting something like that into your heat of combustion procedure.

Sincerely yours,



William C. Child, Jr.
Associate Professor

ENCLOSURE
WCC/jw

