FEB 1 1971

DATE: January 28, 1971

To : Professor Joshua Lederberg

FROM : Harry S. Mosher

SUBJECT: Preprints on Chirality Notation

I have now looked over the material you sent me on your chirality notation "Dendral III -- Draft". My reaction is that this looks very good but that I am not the one who really is in a position to evaluate this very critically. However, there are two people who would be very interested in this, especially Professor Jacques DuBois [Lab. de Chimie Organique Physique, Faculte des Sciences, 1, rue Guy de la Brosse, 75 -- Paris -- 5e] and Professor E. Ruch [Institüt fur Quantenchemie, Freie Universität Berlin, Holbeinstrasse 48, 1 -- Berlin 45 (D.B.R.)].

Professor DuBois has been concerned with almost exactly the same sort of treatment and I am sure he would be interested in receiving this material from you which he is not all that familiar with. In addition, I know that he has done a lot of studies which he has not published and you might be interested in his approaches.

Professor Ruch is interested in a much more deeply mathematical and less computer sort of treatment and I am enclosing a reprint which he sent me that you might be interested in looking at. He has a long series of publications of this type, the mathematics of which are beyond me, but the concepts of which are of considerable interest to me; namely, with respect to asymmetric syntheses. I am quite certain that Professor Ruch is the one person in the world most competent in this field of mathematical treatment of molecular geometry on a sophisticated level.

I think that you will find it interesting and perhaps useful to correspond with these people.

Harry S. Mosher

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Enclosure

P.S. Another person who has recently published on this subject is Ivar Ugi, who is at the University of Southern California. See Angew. Chem., Internat. Edit., 9, 703-730 (1970).

Ruch E— Th Ch Acta 19: 288-300 1970 — double cosets
19: 225-287 1970 — Theorie der Chiralitäts funktionen