

CLOSING REMARKS

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My presence here as summarizer of this joint discussion is an example of how persuasive the president of Commission 33, Dr McCuskey, can be. I feel somewhat overwhelmed by this responsibility, since I have been an onlooker, not a practitioner, in this field for the past decade.

The outstanding feature in this joint discussion, as I see it, is the marriage of galactic astronomy and astrophysics, with clear benefits to both fields. The correlations between ages of stars and their kinematical properties, as discussed by Mrs Cayrel, represents major progress in our understanding of the history of the Galaxy. The rehabilitation of Gould's Belt by Mrs Lesh and Dr Lindblad is another important development.

Repetition of everything you have heard today in these closing remarks would serve no useful purpose, so let me comment on only a few additional matters. The discussions of the disk and halo stars and the importance of the local gas were interesting and important contributions. The relationships between velocity and age, and vertex deviation and age were also valuable contributions.

I find that I am still bothered by the way many people speak of different values of the solar motion with respect to different classes of objects. As I see it, *the* solar motion (in the Milne sense) can have only one value, and this should be the solar motion relative to the circular velocity in the Sun's neighborhood. Differences from this are due to different group motions of the different classes of objects and not to the Sun's motion. *The* solar motion should always be identified with the reduction to the local standard of rest. It is misleading to talk about the solar motion with respect to the globular clusters, for example.

The density wave theory and other theoretical discussions have had their rightful place in this program, and have served to show how the interaction between observation and theory are necessary for real progress.

This has been a stimulating and informative day. Our thanks are due to the organizers and participants.