

## COMMENTARY

### HISTORICAL PERSPECTIVES ON ORIENTATION: AN ADDENDUM

STEPHEN T. EMLEN, *Section of Neurobiology and Behavior, Cornell University, Ithaca, NY 14853.*

Hats off to Ken Able for his thorough and balanced review of bird orientation research (Able 1995). He was, however, too modest about his own contributions, particularly with respect to furthering our understanding of the importance of polarized light cues at sunset and of the integration of celestial rotation and magnetic information for migratory direction finding. He also overlooked including a picture of himself during the upheaval years of orientation research. So I include one (Fig. 1) as an addendum to help round out his review.

#### LITERATURE CITED

ABLE, K. P. 1995. Orientation and navigation: a perspective on fifty years of research. *Condor* 97: 592–604.



Figure 1. Ken Able (on left) in a serious discussion with Steve Emlen about avian orientation. Photo taken in 1974 by Natalie Demong at Cornell University.