



Figure 4.14 Variation in male signal characters and female preference for exaggerated values of signal characters in the lesser wax moth, *Achroia grisella*. (a) Signal rate varies from 60 to 140 pulse-pairs- s^{-1} (see Figure 4.13) in the male population; histogram shows frequency of males in $5-s^{-1}$ bins. Females prefer faster signal rates within this range; triangles indicate female response levels. (b) Asynchrony interval (= time measured from onset of initial pulse to second pulse of a pulse pair; see Figure 4.13) varies from 0 to 1600 μs in the male population; histogram shows frequency of males in 125- μs bins. Females prefer asynchrony intervals $>275 \mu s$ in length; triangles indicate female response levels. Vertical arrows indicate mean signal values; horizontal dashed lines indicate level of female response to mean signal value. (From Jang and Greenfield 1996 and Greenfield 1997b, reprinted from *Perspectives in Ethology*, vol. 12, with permission of Kluwer Press.)