

Before contact with the female and without female reaction, males introduced on female's web exhibit particular behaviours. This suggests the effect of a tactochemical factor (pheromone) on the expression of these behaviours that are at the origin of vibratory phenomena on the web.

Analysis of these phenomena was made thanks to a recording device (LEBORGNE and KRAFFT, 1979). Results show a specific, sequential and repetitive organization of these phenomena that are described in terms of "motif", like some sound signals. Such complex organization makes it possible to use vibratory signals as genuine taxonomic criteria.

In sympatric species, like *Tegenaria domestica* and *T. pagana* chemical and vibratory signals used, certainly, play a part in the interspecific barrier : the factor bound to the silk promotes 1) males'orientation towards specific female silk substrate and 2) the release of male vibratory courtship behaviours. These latter can serve for recognition and reactivity assessment of the conspecific, particularly in *T. domestica* in which female can have vibratory response (LEBORGNE et al., 1980).

REFERENCES

- KRAFFT B., LEBORGNE R., 1979. - Perception sensorielle et importance des phénomènes vibratoires chez les Araignées. *J. Psychologie*, 3 : 299 - 334
- KRAFFT B., ROLAND Ch., 1979. - Un labyrinthe appliqué à l'étude des attractions sociale et sexuelle et de leur spécificité chez les Araignées. *Rev. Arachnol.*, 2 : 165 - 171
- KRAFFT B., ROLAND Ch., 1980. - Quelques remarques au sujet de la communication chimique chez les Araignées. *C.R. Vème Colloque Arach.*, IX, 1979, Barcelone, 129 - 135

- LEBORGNE R., 1981. - Soie et communication chez les Araignées (le rapprochement des sexes). *Atti. Soc. Tosc. Sci. Nat., Mem., Ser. B*, 88, Suppl., 132 - 142
- LEBORGNE R., KRAFFT B., 1979. - Techniques d'enregistrement et d'analyse des signaux vibratoires intervenant dans les comportements des Araignées sédentaires. *Rev. Arachnol.*, 2 : 173 - 182
- LEBORGNE R., ROLAND Ch., HOREL A., 1980. - Quelques aspects de la communication chimique et vibratoire chez certaines Agelenidae. *Proc. 8 th Int. Arachn. Congr.*, 215 - 220
- ROLAND Ch., 1982. - Chemical signals bound to the silk in spider communication. *J. Arachnol.* In press
- WITT P.N., 1975. - The web as a means of communication. *Biosci. Commun.*, 1 : 7 - 23
- WITT P.N., ROVNER J.S., 1982. - Spider communication, mechanisms and ecological significance. Princeton University Press, 440 p.