***Pseudosinella styriaca* sp.n. (Collembola: Entomobryidae)
a New Collembolan Species from the Styrian Cave
„Raudner - Höhle“ (Austria)**

by

Heinz NEUHERZ* and Josef NOSEK**

DESCRIPTION

Length of body of the *Pseudosinella* - specimens without antennae and furcula: 1.1-1.4 mm. Pigment and eyes absent. Claw III is very similar to that of *Pseudosinella immaculata* (Lie - Pettersen, 1896). The repartition of macrochaetae on the head and abdomen is quite different.

Head. - The ratio of antennae: diagonal of head is 1.9 : 1. Sense organ of Ant. III consists of two club-like sensillae and two long guard setae (Fig. 1) and three small, smooth setae. Dorsal median macrochaetae are distributed as e.g. in *Pseudosinella infrequens* and *Pseudosinella impediens* Gisin et Da Gama, 1969. Next to these median macrochaetae there is a transversal row of 7 macrochaetae directed to the lateral margin (Fig. 2).

Thorax. - Unguis III with one small and one large proximal tooth. The distal unpaired tooth is situated at a point 45% down the length of the internal lamella. The lateral teeth are very fine and are almost invisible (Figs. 3,4,5). Mesothorax with 1 pseudoporus and 3 macrochaetae. Metathorax with 1 pseudoporus and 2 macrochaetae.

Abdomen. - Abd. I-IV, each with 1 pseudopore. Macrochaetae are present on Abd. I (2 in number), Abd. II (4 in number), Abd. III (2 in number) and Abd. IV (3 in number). The trichobothria occur on Abd. II-IV (Fig. 6). Mucro bidentated (Fig. 7).

AFFINITY

The new species *Pseudosinella styriaca* belongs to the troglodytic species and to the Mediterranean group of *Pseudosinella*.

Locality in which the animal was found: Raudner - Höhle in Styria; 11 specimens, author* legit.

Holotype mounted in Polyvinylactophenol kept in Landesmuseum Joanneum,

* Mag. Dr. Heinz Neuherz, Institute of Zoology, University, A - 8010 Graz, Austria.

** Dr. Josef Nosek, Institute of Virology, Slovak Academy of Sciences, 9 - Bratislava, CSSR.

Raubergasse 10, A8010, Graz Austria and paratypes, 2 in number, kept in Museum d'Histoire naturelle de Genève, Switzerland.

SUMMARY

Description of a new cavernicolous species of *Pseudosinella*, *P. styriaca*. The species was found in the cave „Raudner - Höhle” (Styria, Austria). *P. styriaca* sp. n. belongs to the Mediterranean group of *Pseudosinella*.

ZUSAMMENFASSUNG

Beschreibung einer neuen trogllobionten Art der Gattung *Pseudosinella*: *P. styriaca*. Die Art wurde in der „Raudner-Höhle” (Steiermark, Österreich) gefunden. *P. styriaca* sp. n. gehört der mediterranen Gruppe von *Pseudosinella* an.

REFERENCES

- GISIN, H. et M.M. DA GAMA 1969: Espèces nouvelles de *Pseudosinella* cavernicoles (Insecta: Collembola). — Rev. Suisse de Zool., 76, 1, 143-181.
- 1970: *Pseudosinella* cavernicoles de France (Insecta: Collembola). — Rev. Suisse de Zool., 77, 1, 161-188.
- 1970: Notes taxonomiques et évolutives sur quatre espèces de *Pseudosinella* cavernicoles (Insecta: Collembola). — Rev. Suisse de Zool., 77, 2, 293-303.
- 1972: Notes taxonomiques et évolutives sur *Pseudosinella* immaculata et *Ps. dobatii*. — Rev. Suisse de Zool., 79, 1, 253-259.
- 1972: *Pseudosinella* cavernicoles d'Espagne (Insecta: Collembola). — Rev. Suisse de Zool., 79, 1, 261-278.

* * *

Figs. 1-7. *Pseudosinella styriaca* sp.n.

- Fig. 1. Sense organ of Ant. III
- Fig. 2. Repartition of macrochaetae on head
- Fig. 3. The third leg in different view
- Fig. 4. The third leg in different view
- Fig. 5. The third leg in different view
- Fig. 6. Repartition of pseudopores, macrochaetae and trichobothria
- Fig. 7. Mucro