

THE GENUS *SCHOUTEDENICHIA* IN S.E. ASIA  
(ACARINA, TROMBICULIDAE)

BY

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SUMMARY

*Schoutedenichia bisetosa* n. sp. is described and figured from *Rattus mülleri* and *R. sabanus* from Malaya. New records and figures are given for *S. centralkwangtung* from South Vietnam. A key to the five Asian species of *Schoutedenichia* is provided. New synonymy: *Schoutedenichia alongensis* Schluger, 1960 = *Schoutedenichia centralkwangtung* (Mo et al., 1959).

The trombiculine genus *Schoutedenichia* Jadin and Vercammen-Grandjean is essentially African, but three species were recognized from Asia by AUDY (1956). Two of these (*S. jubbulporensis* and *S. nausheraensis*) were described from India by WOMERSLEY (1952) while only *S. vercammeni* Audy is from S. E. Asia (Malaya). A second S. E. Asian species has since been described independently from the Chinese province of Kwang-tung and the adjoining North Vietnam by Chinese and Russian workers (Mo et al., 1959; SCHLUGER, in SCHLUGER et al., 1960).

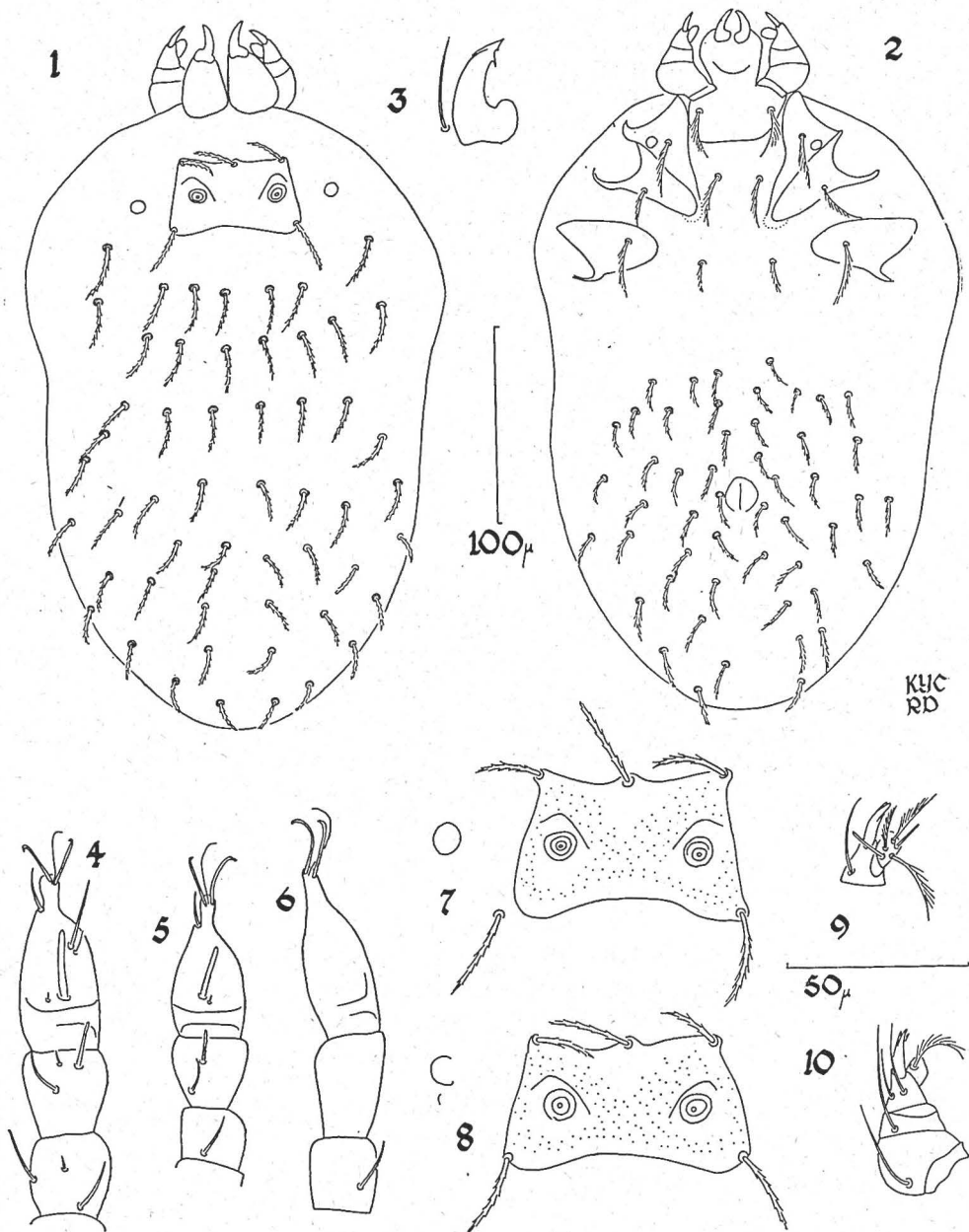
It is the purpose of this note to describe a third new S. E. Asian species since taken on two species of *Rattus* in Malaya, and to present new records and figures for *S. centralkwangtung* Mo et al. An excellent description and figures of *S. vercammeni* already exist (AUDY, 1956), and VERCAMMEN-GRANDJEAN (1958) has also figured in detail the three species discussed by AUDY. Diagnoses are given for all five Asian species in the form of a short key, extended from that of AUDY. For the present, I follow VERCAMMEN-GRANDJEAN (1960) in accepting *Schoutedenichia* as a full genus among the trombiculines, but note that the tarsal "stumps" of the nymphs are also typical of the Gahrlepiinae.

KEY TO ASIAN SPECIES OF *Schoutedenichia*.

1. Coxa III with only one seta..... 2  
Coxa III with more than one seta..... 4

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FIGS. 1-10. — *Schoutedenichia centralkwangtunga* (Mo et al.).

1. Dorsum of body ; 2. Venter of body ; 3. Chelicera and galeal seta ; 4, 5 and 6. Specialized setation of legs I, II and III, respectively ; 7. Abnormal scutum with one PL removed from scutum ; 8. Normal scutum ; 9 and 10. Palp in ventral and dorsal views, respectively.

2. Setae on palpal femur and genu both branched ; DS 38 in number.. *jubbulporensis*.  
Setae on palpal femur and genu both nude ; DS 48 or more..... 3
3. DS 48-60 ; scutum small, with PW 53-65  $\mu$ ..... *centralkwangtungae*.  
DS 72 ; scutum large, with PW 80  $\mu$ ..... *vercammeni*.
4. Coxa III with two setae..... *bisetosa*.  
Coxa III with three setae..... *nausheraensis*.

SCHOUTEDENICHIA CENTRALKWANGTUNGA (Mo, Chen, Ho and Li, 1959), n. comb.  
Figs. 1-10.

*Euschöngastia centralkwangtungae* MO, CHEN, HO and LI, 1959, *Acta ent. sin.*, 9 : 255.  
Figs. 17-24. From *Suncus murinus*.

*Schoutedenichia alongensis* Schluger, 1960, in SCHLUGER *et al.*, *Parasit. Sbornik*, 19 : 191.  
Fig. 12. New synonymy. From *Rattus edwardsi*.

I had already had this species figured as distinct from the other S. E. Asian species before seeing the papers of Mo *et al.* and SCHLUGER *et al.* The text is therefore now confined to some supplementary illustrations and detailed standard data.

Standard data in micra of larval scutum of *S. centralkwangtungae* Mo *et al.*

AW	PW	SB	ASB	PSB	SD	AP	AM	AL	PL
49	65	38	22	19	41	38	24	19	27
47	64	36	19	17	36	32	23	18	25

*Material examined.* — Two larvae from the type host, a shrew, *Suncus murinus* (Soricidae), Saigon, South Vietnam, 27-V-1960, L. W. Quate. Thus all known records are from Vietnam and the bordering Chinese province of Kwang-tung.

#### SCHOUTEDENICHIA VERCAMMENI Audy.

*Schoutedenichia vercammeni* AUDY, 1956, *Bull. Raffles Mus.*, 28 : 82. Fig. 1.

*Schoutedenichia (Schoutedenichia) vercammeni*, VERCAMMEN-GRANDJEAN, 1958, *Ann. Mus. roy. Congo Belge. (Zool.)*, 65 : 64. Fig. 31.

*Notes.* — This species was described from a single specimen (which I have not seen) from *Rattus sabanus*, Bukit Lagong, Kepong, Selangor, Malaya.

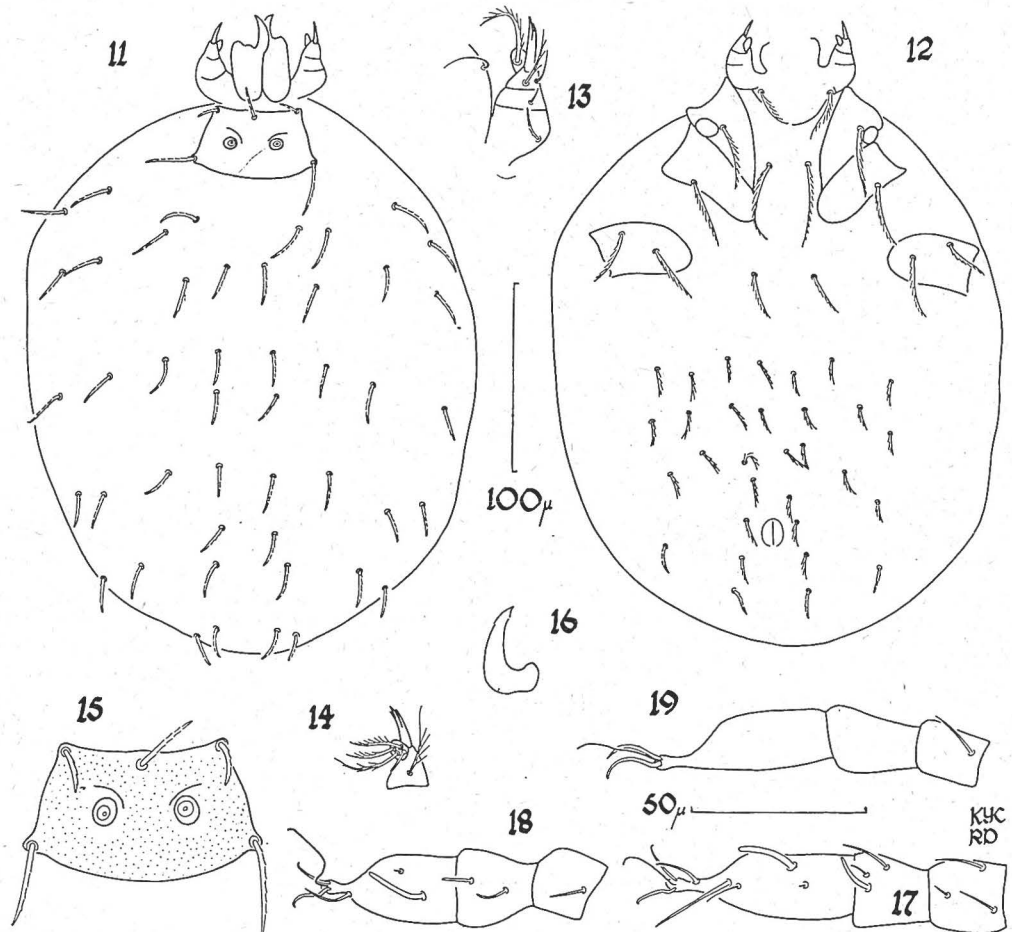
#### *Schoutedenichia bisetosa* n. sp. Figs. 11-19.

*Euschöngastia "BIS"* AUDY, 1956, *Bull. Raffles Mus.*, 28 : 97.

*Type material.* — Holotype larva and ten paratype larvae from *Rattus mülleri* R19635, Ulu Langat, Selangor, Malaya, 5-VIII-1952 ; one paratype larva from *R. sabanus* R16281, Kepong, Selangor, 19-X-1951. Holotype in British Museum.

(Natural History), London; paratypes in U.S. National Museum, Washington; Rocky Mountain Laboratory, Hamilton; and both my laboratories.

*Larva*. — A small species with idiosoma in mounted semi-engorged specimens 275-319  $\mu$  long by 220-275  $\mu$  wide.



FIGS. 11-19. — *Schoutedenichia bisetosa* n. sp.

11. Dorsum of body; 12. Venter of body; 13. Dorsal view of palp, with galeal seta; 14. Ventral view of palpal tibiotarsus; 15. Scutum; 16. Chelicera; 17, 18 and 19. Specialized setation of legs I, II and III, respectively.

*Body setation*. — Dorsal setae short and stout, with weak barbules, arranged 4.12.10.8.8.4. Humeral setae paired, 19  $\mu$  long; DS 17  $\mu$  long; CS 16  $\mu$  long. Ventral setae about 30 in number, those near anus 13  $\mu$  long. Sternal seate 2+2.

*Scutum* transverse, with anterior margin slightly concave, but lateral and posterior margins shallowly convex. Surface punctate. Scutal setae short, particularly AL, and slightly barbed along shaft. PL > AM > AL. Sensillary bases fairly

wide apart, slightly nearer to level of PL than that of AL. Eyes not clear, but possibly 1+1.

*Gnathosoma*. — Galeal setae nude. Chelicerae with usual tricuspid cap, but apparently without any other armature. Apart from the tarsala, the palpal formula is b.n.bnb.4b. Genual seta very short. Subterminala absent. Palpal claw 3-pronged.

*Legs* all 7-segmented. Coxal formula 1.1.2. Specialized setation as follows. — *Tarsus I* with pretarsala, subterminala, parasubterminala, tarsala and microtarsala; *tibia I* with two tibialae and microtibiala; *genu I* with two genualae and microgenuala. *Tarsus II* with pretarsala, tarsala and microtarsala; *tibia II* with two tibialae; *genu II* with genuala. *Genu III* with genuala. *Tibiala III* absent.

*Standard data in micra of larval scutum of S. bisetosa n. sp.*

AW	PW	SB	ASB	PSB	SD	AP	AM	AL	PL
40	63	23	19	17	36	30	16	9	21
43	64	24	18	21	39	30	15	10	24
43	63	24	18	19	37	29	15	10	22
42	63	23	18	21	39	32	—	11	21
42	64	23	19	21	40	31	—	10	24

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