

dorsum transversely carinate. Alitrunk interstices glassy-smooth with small piligerous and non-piligerous punctures. Petiolar dorsum and sides (including node) carinate, lower  $\frac{1}{2}$  of sides and remaining surface punctulate. Postpetiolar dorsum and sides (including node) carinate, lower 0.67 of sides and remaining surfaces punctulate. First gastral tergite base carinate; carinae diverging towards posterior; length of carinae not exceeding  $\frac{1}{4}$  length of postpetiole. First gastral sternite base punctulate with several minute carinulae. Remainder of gaster glassy smooth (even at high magnifications), with scattered piligerous punctures. Body surfaces with moderately dense, suberect to decumbent setae. Setae of flexor surfaces of coxae and venter of petiole absent. Entire body dark brown [almost piceous]; distal  $\frac{1}{3}$  of head and appendages brown. Setae gray to white.

### GYNE

Measurements and associated statistics are listed in Appendix Table 15. Key statistics are presented herein: TL ( $5.34 \pm 0.011$ , 3), HL ( $1.01 \pm 0.025$ , 3), HW ( $0.91 \pm 0.011$ , 3), CI ( $90.11 \pm 3.303$ , 3), SL ( $0.83 \pm 0.028$ , 3), SI ( $91.26 \pm 3.965$ , 3), AL ( $1.63 \pm 0.032$ , 3), PRW ( $0.83 \pm 0.030$ , 3), PL ( $0.62 \pm 0.021$ , 3), PH ( $0.28 \pm 0.005$ , 3).

As described for worker with ocelli and usual thoracic modifications associated with flight, except as follows: mandible with 8 teeth; anterior clypeal margin in full face view with median lobe emarginate; apex in lateral view flat. Compound eye with 17 ommatidia in greatest diameter. Propodeal spines of moderate length, approximately  $\frac{1}{3}$  length of declivitous face of propodeum. Metanotal impression absent due to thoracic modifications associated with flight. Petiole pedunculate; stalk approximately  $\frac{1}{2}$  length of petiole, gradually thickening towards node (not as much as worker). Anterior and posterior subpostpetiolar processes greatly reduced. Head interstices glassy-smooth with numerous small piligerous punctures. Thoracic dorsum costate. Thoracic pleura smooth near center of thorax, approaching carinate towards dorsum, approaching costate towards either end. Mesopleuron with weakly scrobiculate median area. Coxae carinate; remainder of legs glassy-smooth. Propodeal dorsum with transversely carinate basal face and glassy-smooth declivitous face. Postpetiole dorsum weakly carinate (almost smooth), remaining surfaces carinate, including venter.

No males of this species are currently known.

### DISCUSSION

*S. owstoni* is known only from scattered localities across Japan and one in China and it is rarely encountered throughout its range; it is usually found in broad-leaved deciduous forest or evergreen forest