

## A NEW FOSSIL SAWFLY FROM FLORISSANT, COLORADO.

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During the latter part of August, of the present year, Dr. J. H. Todd and his son, Dr. J. C. Todd made a small collection of fossils in the Miocene shales at Florissant. On looking over the material, I found one new species, which they kindly presented to the Museum of the University of Colorado.

### ***Tenthredella toddi*, n. sp.**

Length about 8 mm. or a little more (apex of abdomen missing); anterior wing 7 mm.; head and thorax black; abdomen pale (probably green in life), with a dorsal black band which is broad basally, sending a branch on each side to or nearly to the anterior lateral corners of the abdomen, posteriorly rapidly tapering, soon becoming a mere narrow stripe; wings clear, nervures dark; venation as in MacGillivray's figure of *Tenthredella flava* (*Tenthredo flava* Poda) in almost every respect, except that the anal or lanceolate cell of hind wings is petiolate apically (petiole 96 microns long), and the lanceolate cell of anterior wings is joined by the transverse median nervure considerably beyond the middle of the distance from the cross-nervure to the apex. The marginal cell is also decidedly deeper. The following measurements are in microns: *Anterior wing*, depth of stigma, 400; end of stigma to end of marginal cell, 1950; second submarginal cell on marginal, 1025; third submarginal on first marginal, 530; third submarginal on second marginal (beyond cross-nervure of marginal), 400; basal nervure, 530; first discoidal on second, 800, and on third, 640. *Posterior wing*: Depth or width of lanceolate cell in middle, 480.

Among the species described from the Florissant shales, this can only be associated with *Tenthredella submersa* (*Tenthredo submersa* Ckll.), which is about 13 mm. long, and differently coloured. In the present fauna of Colorado, species of this genus differ in the shape of the third submarginal cell; thus *Tenthredella flavomarginis* (*Allantus flavomarginis* Norton) has this cell short, the upper side no longer than the outer; whereas *Tenthredella ferrugineipes* (*Tenthredo ferrugineipes* Cresson) has this cell much longer. In *T. toddi*, the cell is of the longer type.



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