

A LIST OF KANSAS DESMIDS.

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A few years ago Prof. Lorenzo N. Johnson, of the University of Michigan, was at work on a monograph of the Desmids of North America, intending to make a comprehensive study of the American species; but his untimely death in the early part of the year 1897, prevented the fulfillment of this purpose. Some material which Prof. Johnson had received from Kansas proved very rich in species.

Thinking that a list of the determined Kansas species would make a valuable addition to the Kansas flora, I have obtained the following list of forty-seven species which was kindly furnished by Mrs. Johnson, of Evanston, Ill. I have verified the names, and arranged the genera in the order followed in Engler and Prantl. Very few localities were given in the card catalogue from which the list was taken, and only a few others could be added which were taken from Prof. Johnson's published articles.

Family DESMIDIACEAE.

PENIUM (Breb.) DeB.

1. *P. margaritaceum* (Ehrb.) Breb.

CLOSTERIUM Nitzsch.

2. *C. acerosum* (Schrank) Ehrb.
3. *C. areolatum* Wood.
4. *C. didymotocum* Corda.
5. *C. lanceolatum* Ktz.
6. *C. leibleinii* Ktz.
7. *C. lineatum* Ehrb.
8. *C. lunula* (Muell.) Nitzsch., Topeka.
9. *C. macilentum* Breb.
10. *C. rostratum* Ehrb.
11. *C. setaceum* Ehrb.
12. *C. tumidium* Johnson, Burlington.

PLEUROTAENIUM (Naeg.) Lund.

13. *P. nodulosum* (Breb.) DeB.
14. *C. trabecula* (Ehrb.) Naeg.

COSMARIUM (Corda) Lund.

15. *C. botrytis* (Bory) Menegh.
16. *C. conspersum* Ralfs.
17. *C. constrictum* Delp.
18. *C. contractum* Kirch.
19. *C. granatum* Breb.
20. *C. ornatum* Ralfs.
21. *C. porrectum* Nordst., Burlington.
22. *C. portianum* Arch.
23. *C. rectangulare* Grun.
24. *C. gotlandicum* Wittr., Burlington; perhaps the same as the preceding species.
25. *C. suberenatum* Hantzsch.
26. *C. sulcatum* Nordst.
27. *C. triplicatum* Wolle.

PLEUROTAENIOPSIS Lund.

28. *P. ovalis* (Ralfs) Lund.

ARTHRODESMUS Ehrb.

29. *A. convergens* Ehrb.

XANTHIDIUM Ehrb.

(Holacanthum Lund.)

30. *X. antilopaeum* (Breb.) Ktz.

STAUSTRUM (Meyen) Lund.

31. *S. arctiscon* (Ehrb.) Lund.
32. *S. crenulatum* (Naeg.) Delp.
33. *S. cuspidatum* Breb.
34. *S. echinatum* Breb.
35. *S. eustephanum* (Ehrb.) Ralfs.
36. *S. polymorphum* Breb.
37. *S. subarcuatum* Wolle.

EUASTRUM (Ehrb.) Ralfs.

38. *E. binale* (Turp.) Ralfs.
39. *E. verrucosum* (Ehrb.) Ralfs.

MICRASTERIAS Ag.

40. *M. furcata* Ag.
41. *M. rotata* (Grev.) Ralfs.
42. *M. radiosa* (Ag.) Ralfs.
43. *M. truncata* (Corda) Breb.

ONYCHONEMA Wallich.

44. *O. laeve* Nordst.

SPHAEROSMA (Corda) Arch.

45. *S. wallichii* Jacobsen.

HYALOTHECA Kuetz.

46. *H. dissiliens* (Smith) Breb.
47. *H. mucosa* (Mert.) Ehrb.