Bibliography

B. BERZINS, Einige neue *Monommata*-Arten (Rotatoria) aus Schweden. Arkiv för Zoologi, 42 A, No. 13, 1-6, 12 fig., 1949.

Description of three new species of the genus *Monommata*, viz. *M. robusta* n. sp., *M. dissimile* n. sp. and *M. sphagnicola* n. sp.

W. H. SCHUSTER, Over de mogelijkheden ener oestercultuur in Indonesië, Landbouw, 21, 1949, 33-42.

On the possibility of Oysterculture in Indonesia.

Condensed English summary: Oyster culture or collecting taking place in most of the countries surrounding Indonesia, such as Australia and Japan, the writer means that there exist fair possibilities as to the extension of oyster culture to Indonesia, the natural conditions there being favorable; collecting on a small scale occurs on some islands, and on Marunda there seems to exist a primitive form of culture. Particulars are given of the physiology of the oyster, as well of its culture in other countries; some ten species of the genus *Ostrea* are recorded for Indonesia.

P. M. JONASSON, Quantitative studies of the bottom fauna. Reprint from Kaj Berg, Biological studies on the river Susaa, Folia Limnologica Scandinavica, No 4, 1948, 204-287, 7 plates, 5 tables.

Very thorough quantitative account on the bottom fauna found in 5 different portions of the river Susaa and its tributary Tuel Aa, with description of each locality, and a comparison with some results of other authors.

J. KORNAS & A. MEDWECKA-KORNAS, Les associations végétales sous-marines dans le golfe du Gdansk (Baltique Polonaise), Bull. Ac. Pol. Sc. & Lettres, Cl. Sc. Math. et Nat. (B) 1948, Cracovie 1949, 71-88, 1 carte, tables.

A study on the submarine vegetal associations found in the western portion of the gulf of Gdynia. The associations under review are grouped into a) sea-bottom associations, comprising: 1. *Fuceto-Furcellarietum* n. nov. prov., 2. *Chareto-Tolypelletum* n. nov. prov. and 3. the *Cladophora glaucescens*-group; b) associations found in the sea-havens, comprising: 4. *Enteromorpha Linza* & *Spirulina subsalsa*-group and 5. *Enteromorphetum compressae* n. nov. prov. A brief description of each of the associations is given, with tables

illustrating some of the latter. The authors point out that the association *Enteromorphetum compressae* is the only that seems to possess equivalents outside the Baltic sea.

P. van OYE, Het waterprobleem in België, Verslagen en Voorstellen van de Kon. Vl. Ac. Wet., Lett. & Sch. Kunsten v. België, Kl. Wet. No. 1, 1949, 15 pp.

An account of the problem of water-pollution in the industrialized parts of Belgium that has become of later crucial, especially in larger cities. On the other hand, it is pointed out that the water reserves are not sufficient to match the growing necessities of the industries and of the domestic use, the more so because the future of the agriculture must not be neglected. It is advised to use as much rain-water as possible and to organize scientifically the purification of streaming water that is more and more polluted by all kinds of sewage. The writer ends by saying that the situation is disquieting and will end in a catastrophe if proper measures are not urgently taken.

O. LHOTSKY, The production of Chlamydospores by *Closterium moniliferum* (BORY) EHRBG., Studia Botanica Cechoslovaca, IX, 2-4, 1948, 155-159, 3 fig., 1 plate.

Description of the chlamydospores produced by *Closterium moniliferum* and of the process of the formation. The permanent cells, both unreducted and degenerated, have been described and named chlamydospores by CZURDA in 1937 in the Zygnemales and the Mesotaeniales. The writer has discovered them in the Desmidiales; he thinks that the cause of their formation are probably unfavorable growing conditions.

J. DONNER, Rotatorien der Humusböden, Oesterr. Zool. Ztschr., Bd. II, 1/2, 1949, 117-151, 28 ffig.

Description of new species of soil-rotifers, viz.: *Scepanotrocha delicata, Philodina morigera, cristata, Ceratotrocha velata, franzi, Mnioba tarda, variabilis, tentans, Habrotrocha rara, serpens, solida, sollicita, crassa, filum, flavicornis* de CONING (re-description), *solitaria, rosa, Macrotrachela ornata, oblita, libera, festinans.*

B. DUSSART, Le lac de Vallon, Contribution à l'étude des lacs du Chablais, Académie Chablaisienne, T. 49, 1946, 30 pp., 3 ffig.

Description of the lake Vallon. The following points are discussed: Geology of the basin of the lake with historical sketch — Location, Bathygraphy, Hydrology — Method and Technique of the study — Chemical characters — Biology — Productivity and Pisciculture.

B. DUSSART, Sur le plancton du lac Léman, Arch. des Sci. Genève, vol. 1, fasc. 3, 1948, 417-428, I fig.

A list of animal and vegetal planktonts found in the lake Leman

in 1946-47. Meso- and oligosaprobic species characterize the latter lake with *Tabellaria fenestrata* as the dominant representative of the plytoplankton.

B. DUSSART, Contribution à l'étude zoologique des lacs de Haute-Savoie, I, Le lac de Darbon, Annales de la Station Centrale d'Hydrobiologie appliquée, II, 1948, 207-220, ppl. XXIX-XXII.

Notes on a number of Crustaceans and Insects collected in the lake Darbon, near the shore. There are no fish in the lake, a fact due to the broad quantitative variations of the zooplankton, the lake being frozen for six months in the year. The possibility to re-populate the lake with fish is examined.

B. DUSSART, Recherches hydrographiques sur le lac Léman, Mémoire présenté à la Faculté des Sciences de Paris, No. 979, 1948, 187-206, ppl. XXII-XXVIII.

Contribution to the study of the currents in the lake Léman in connexion with the river Rhone. Tte writer concludes that the Rhone is not the sole factor to cause currents in the lake, and that the fauna of the latter is influenced at least as much by the climatic conditions.

(Miss) M. NISBET & B. DUSSART, Le plancton dans le lac Léman et ses facteurs de répartition, C. R. s. Ac. Sci., t. 227, 1054-1056, 15 nov. 1948.

Note summarizing the results of investigations on the action of the river Rhone on the repartition of nutritive salts in the superficial layers of the lake Léman, in summer. Where the waters are permanently balanced, plankton and phosphates depend on each other; where the waters are perturbed by addduction of glaciary water, the less phosphates are found, the more plankton, and conversely.

C. MOTAS, (Mme) J. TANASACHI & N. BOTNARIUC, Sur quelques Hydracariens récueillis en Yougoslavie dans le bassin de la Bosna, Bull. de l'Ecole Polytechnique de Jassy, III, 2, 1948, 28 pp., 7 ffig.

List of Hydracarians collected in the Bosna-valley, Yugoslavia. in 1947, with descriptions of some species. *Neumania* (s. str.) *phreaticola* is described as new.

C. MOTAS & (Mme) J. TANASACHI, Espèces nouvelles et connues du genre *Megapus* Neumann (Hydrachnelles) trouvées dans les eaux souterrains, Ann. Scient. Univ. Jassy, (2), XXXI, 1948, 17 pp.

Description of some Hydracarians collected in different parts of Rumania, belonging to the genus *Megapus* Neumann. Eighteen species are described, and the following are new: *P. magnirostris, pygmaeus, microphtalmus, prosiliens, elegans, sokolowi, szalayi, phrea-*

ticus. A new subgenus, *Rhynchomegapus*, is also described, to replace *Tympanomegapus* Thor 1923, and partly based on other characters. However, no subgenerotype is designated.

C. MOTAS & (Mme) J. TANASACHI, Diagnoses de trois nouvelles Hydrachnelles phréaticoles de Roumanie, ib., 6 pp.

Diagnoses of three new genera of Hydrachnellids, viz.: *Azugofeltria* (generotype: *A. mira*), *Vietsaxona* (no generotype is designated) and *Bogatia* (generotype: *B. maxillaris*); for the latter, a new family Bogatiidae is created. Described as new species: *Azugofeltria mira* and *Bogatia maxillaris.*

J. BRUNEL, The rediscovery of the Desmid *Pleurotaenium spinulosum*, with description of a new variety from Madagascar, Contrib. bot. Univ. Montréal, 64: 3-19, 1949, 7 fig.

A detailed account on the description of *Pleurotaenium spinulosum* Wolle 1881 and of the various vicissitudes undergone by that apparently rare Desmid, recently rediscovered in Canada, Louisiana and Florida, and also on Madagascar as a variety; the latter is described as *Pl. spinulosum* (Wolle) Brunel, var. *madagascariense* Brunel.

J. BRUNEL, *Achroonema spiroideum* Skuja 1948, of the Trichobacteriales, discovered simultaneously in Sweden and in Canada, ib., 64: 21-27, 1949, I fig.

Note on the bacterium *Achroonema spiroideum*, found by the writer in Canada in the Spring of 1948 and by Prof. H. SKUJA in Sweden probably on a slightly earlier datum. Summary of SKUJA's discussion on the affinities of that species is given.

J. SAMPAIO, Cianofitas da Sierra da Estrela, Broteria, Série de Ciências Naturais, XVI (XLIII), Fasc. III, 1947, 105-113.

Descriptive list of Blue Algae found in the mountains of Sierra da Estrela, Portugal. Are new for Portugal: *Chroococcus minutus* (Kütz.) Näg., *Dichothrix Baueriana* (Grun.) Born. et Flah. and *Hapalosiphon intricatus* W. & G. S. West.

J. SAMPAIO, Subsidios para o estudo das Cianofitas Portuguesas (Oitava série), Anais da Fac. de Ciências do Porto, XXXII, fasc. IV, 1948, 10 pp.

Eighth contribution to the Blue Algae flora of Portugal. Descriptive list of 24 species of which *Gloeocapsa montana* Kütz., *Symploca muscorum* Gom. and *Tolypothrix fasciculata* Gom. are new for Portugal.

J. SAMPAIO, Uma localidade nova para o *Ascophyllum nodosum* Le Jol. descoberta pelo Prof. G. Sampaio, Broteria, Série de Ciencias Naturais, XVII (XLIV), Fasc. II, 1948, pp. 1-3, 1 fig.

Short note on discovery, among the plants in the herbarium of the Botanical Institute Dr. Gonçalo Sampaio, of specimens of *Ascophyllum nodosum* Le Jol., collected by Prof. Sampaio at Apùlia.

J. SAMPAIO, As Cianofitas Portuguesas do herbàrio de Welwitsch, Publ. Inst. Bot. Dr. Gonçalo Sampaio, No. 29, 1947, pp. 1-23, fig. A-B.

Annotated list of 26 species of Cyanophyceae collected in Portugal by Fr. Welwitsch. Described as new for Portugal: *Chroococcus minutus* (Kütz.) Näg., *Hydrocoleum Brebissonii* Kütz., *Lyngbya sordida* Gom., *L. Okeni* Ag. and *Spirulina subtilissima* Kütz.

J. SAMPAIO, Subsidios para a Historia da Botanica em Portugal, II, o Dr. Romualdo Fragoso, o Dr. Gonçalo Sampaio e a Micologia Portuguesa, Broteria, Série de Ciencias Naturais, XVII (XLIV), fasc. III, 1948, XVIII (XLV), fasc. I-II & III, 1949, pp. (1-37), facs., portr.

A second contribution to the history of Botany in Portugal, comprising a life-sketch of Dr. R. Fragoso and of Dr. G. Sampaio in connection with the study of Mycology in Portugal.

J. SAMPAIO, Desmidias novas para a flora Portuguesa, Bol. Soc. Broteriana, XXIII, II série, 1949, 105-117, 5 fig.

List of Desmids new to the flora of Portugal, viz.: *Penium silvae nigrae* Rabanus, *Cosmarium tatricum* Racib. var. *novizelandicum* Nordst., *Staurastrum iotanum* Wolle. Description of *St. obliquum* (Nordst.) nov. comb. and f. *elongatum* nov. f. and var. *ornatum* (Kolkw. & Krieger) nov. comb.