

# THE PHYCOLOGICAL SOCIETY OF AMERICA

'Ipse super maria fundavit eum.' *Psalms.*

Volume XI

News Bulletin, April, 1958

Number 33

P. C. SILVA, Editor

## Phycological Literature for 1956

Compiled by P. C. SILVA

Titles of references with text in Chinese, Japanese, or Slavic languages *without* English, French, or German summaries are translated into English and enclosed in brackets. Titles of references with text in Chinese, Japanese, or Slavic languages *with* English, French, or German summaries are given in the language of the summary. Titles of references with text in Romance, Teutonic, or Finno-Ugric languages are not translated and information as to summaries in other languages is not given. In the code for summaries, the first symbol designates the language of the text, subsequent symbols the language of summaries. Thus, (REG) means "text in Russian with English and German summaries." Symbols include B, Bulgarian; C, Chinese; Cz, Czech; D, Danish; Du, Dutch; E, English; F, French; G, German; I, Italian; J, Japanese; M, Magyar; N, Norwegian; P, Polish; Pg, Portuguese; R, Russian; Ro, Romanian; S, Spanish; Se, Serbo-Croatian; Sl, Slovenian; Sw, Swedish; U, Ukrainian. References published in 1955 but unintentionally omitted from the 1955 bibliography have been included. References dealing solely with fossil algae have been omitted. References marked with asterisks have been obtained from secondary sources and have not been verified. Of numerous persons who have cooperated in this compilation, special thanks are due K. C. Fan, R. A. Lewin, G. F. Papenfuss, Catherine Rieser, and Janet Stein.

- . Captive red tide. *Time* 67(15): 61. 9 Ap
- . Facts about red tide. U. S. Dept. Interior, Fish & Wildlife Service, FL-434/Fish. Biol. Mr
- . Professor Carl Wesenberg-Lund (1867-1955). *J. Quekett Micr. Club*, ser. 4, 4(5b): 266. My
- . Seaweed colloids. *Econ. Bot.* 10(4): 334. O/D
- . Société Phycologique de France. *Rev. Gén. Bot.* 63(744): 104. F
- AARONSON, S., S. HUTNER, AND H. BAKER. (Abstr.) Effect of 2,4-dinitrophenol on *Ochromonas*. *J. Protozool.* 3(suppl.): 7. Au
- AIRTH, R. L., AND L. R. BLINKS. A new phycoerythrin from *Porphyra naidum*. *Biol. Bull.* 111(3): 321-327. D
- AKIYAMA, Y. [Report on a collection of algae from Rishiri Island.] *Bull. Jap. Soc. Phyc.* 4(1): 29-30. My (J)
- . On some fresh water species of Dinophyceae found in Asahigawa, Hokkaido. *Ibid.* 4(3): 80-82. D (JE)
- . On some *Ophiocytium* found in Asahigawa, Hokkaido. *Ibid.* 83-85. (JE)
- ALCER, G. Die Aufnahme von Harnstoff und Glycerin durch die Pflanzenzelle in Abhängigkeit von der Acidität der Aussenlösung und des Zellsaftes. *Protoplasma* 47(1/2): 77-102. (inc. *Oedogonium*)
- ALEEM, A. A. Quantitative underwater study of benthic communities inhabiting kelp beds off California. *Science* 123(3188): 183. 3 F
- . A quantitative study of the benthic communities inhabiting the kelp beds off the California coast, with a self-contained diving apparatus. *In* Braarud & Sørensen, pp. 149-152.
- AL KHOLY, A. A. On the assimilation of phosphorus in *Chlorella pyrenoidosa*. *Physiol. Pl.* 9(1): 137-143.
- ALLEN, M. B. Excretion of organic

- compounds by *Chlamydomonas*. Arch. Mikrobiol. 24(2): 163-168. 31 Mr
- . (Abstr.) The effect of salinity and of mineral nutrition on the metabolism of *Platymonas*. Pl. Physiol. 31(suppl.): xix, J1
- . Photosynthetic nitrogen fixation by blue-green algae. Se. Monthly 83(2): 100-106. Au
- ANAGNOSTAKOS, N. P. (Abstr.) Carbon sources for green and colorless Euglenida. J. Protozool. 3(suppl.): 12. Au
- ANANIADIS, C. I. Limnological study of Lake Karla. Bull. Inst. Océanogr. 53(1083): 19 pp. 17 Au (brief reference to algae)
- ANDERSEN, G. On the detection of alginic acid in tissues by means of birefringence. In Braarud & Sørensen, pp. 119-124.
- \* ANTIPOVA, N. L. De specie nova generis *Cyclotella* e Lacu Baikal. Bot. Mater., Otd. Spor. Rast., Bot. Inst. Akad. Nauk SSSR 11: 35-39. 1 Ja (R)
- \* ———. De formatione auxospororum *Cyclotella baicalensis* (C. Meyer) Skvortzov. *Ibid.* 39-42. (R)
- ARAKI, C. Structure of the agarose constituent of agar-agar. Bull. Chem. Soc. Japan 29(4): 543-544. Je
- ARAKI, C., AND K. ARAI. Studies on the chemical constitution of agar-agar. XVIII. Isolation of a new crystalline disaccharide by enzymatic hydrolysis of agar-agar. *Ibid.* 29(3): 339-345. Ap
- ARAKI, C., AND S. HIRASE. Partial methanolysis of the mucilage of *Chondrus ocellatus* Holmes. *Ibid.* 29(7): 770-775. S
- ARASAKI, S., T. FUJIIYAMA, AND Y. SAITO. On the relation between the appearance of spores of the laver (*Porphyra tenera*) and the environmental conditions. II. Bull. Jap. Soc. Sc. Fish. 22(3): 167-171. J1 (JE)
- ARASAKI, S., H. TOKUDA, AND K. FUJIIYAMA. The reproduction and morphology in *Codium fragile*. Bot. Mag. Tokyo 69(811): 39-44. Ja
- ARNOLD, W., AND E. S. MEEK. The polarization of fluorescence and energy transfer in grana. Arch. Biochem. Biophys. 60(1): 82-90. Ja (*Chlorella*)
- ARNOLD, W., AND J. THOMPSON. Delayed light production by blue-green algae, red algae, and purple bacteria. J. Gen. Physiol. 39(3): 311-318. 20 Ja (*Porphyridium*, *Anacystis*, *Synechococcus*)
- ARNON, D. I. Phosphorus metabolism and photosynthesis. Ann. Rev. Pl. Physiol. 7: 325-354.
- ARTJUSIENKO, O. T., AND O. P. OKSIIUK. [Results of spore-pollen and diatom analyses of benthonic deposits of Lake Tur.] Ukrain. Bot. Zhurn. 12(2): 70-76. 14 Je 1955 (UR)
- ASMUND, B. Electron microscope observations on *Mallomonas* species and remarks on their occurrence in some Danish ponds, II. Bot. Tidskr. 53(1): 75-85. 28 Je (sp. nov.)
- ASTBURY, W. T., AND F. G. E. PAUTARD. Extraneous x-ray diffraction patterns from algal flagella. Nature 178(4529): 372. 18 Au (*Polytoma*)
- ATKINS, W. R. G., AND P. G. JENKINS. Factors affecting the vernal phytoplankton outburst in the English Channel. *Ibid.* 177(4522): 1218-1219. 30 Je
- AUGIER, J. Sur les mucilages élaborés par les Floridiées d'eau douce: *Lemanea*, *Tuomeya*, *Batrachospermum*, *Thorea*. C. R. Acad. Sc. 242(8): 1069-1071. 20 F
- AUGIER, J., AND P. MASTAGLI. Sur un composé phénolique bromé extrait de l'algue rouge *Halopitys incurvus*. *Ibid.* 242(1): 190-191. 4 Ja
- AUGIER, J., AND M. L. du MERAC. Sur le chimisme glucidique des Némationales. *Ibid.* 243(22): 1785-1787. 26 N
- AUSTIN, A. P. Chromosome counts in the Rhodophyceae. Nature 178(4529): 370-371. 18 Au
- BAARDSETH, E. The growth rings in *Alaria stipes*. In Braarud & Sørensen, pp. 153-157.
- BAKER, H., H. SOBOTKA, I. PASHER, AND S. H. HUTNER. Comparative study of vitamin B<sub>12</sub> assay in urine. Proc. Soc. Exper. Biol. Med. 91(4): 636-638. Ap (use of *Ochromonas* and *Euglena*)
- BALECH, E. Étude des Dinoflagellés

- du sable de Roseoff. Rev. Alg. n.s. 2(1/2): 29-52. Mr (*Thecadinidae*, fam. nov.; *Adenoides*, *Roscoffia*, gen. nov.; *Thecadinium*, sp. nov.)
- BALLANTINE, D. Two new marine species of *Gymnodinium* isolated from the Plymouth area. J. Mar. Biol. Ass. U.K. 35(3): 467-474. O
- BANSE, K. Produktionsbiologische Serienbestimmungen im südlichen Teil der Nordsee im März 1955. Kieler Meeresf. 12(2): 166-179.
- BARASHKOV, G. K. [On the carbohydrates of certain diatom species.] Dokl. Akad. Nauk SSSR 111(1): 148-151. 27 N (R; cf. Chem. Abstr. 51: 7514)
- BARKER, S. A., J. A. BASSHAM, M. CALVIN, AND U. C. QUARCK. Sites of azaserine inhibition during photosynthesis by *Scenedesmus*. J. Am. Chem. Soc. 78(18): 4632-4635. 20 S
- BARR, H., AND W. SCHWARTZ. Untersuchungen zur Ökologie farbloser fädiger Schwefelmikroben. Biol. Zentralbl. 75(7/8): 451-464. J1/Au (incl. *Beggiatoa*)
- BARRY, W. T. (Abstr.) Factors which affect the periodicity and abundance of algae in the Upper Clark Fork of the Columbia River drainage. Proc. Montana Acad. Sc. 16: 53.
- BAS, C. Phacophyceae biometry and growth. C. R. 5me Congr. Int. Bot. 17: 61-62. 1955
- BASLAVSKAIA, S. S., O. I. KOBLENTS-MISIKE, AND L. A. UDALOVA. [The effect of mineral nutrients on photosynthesis in algae.] Trudy Inst. Fiziol. Rast. Akad. Nauk SSSR 10: 197-209. 1955 (R)
- BASLAVSKAIA, S. S., AND R. F. KULIKOVA. The photometric method of measuring the growth of algae cultures. Biull. Moskov. Obsch. Isp. Prirody. Otd. Biol. 61(6): 77-82. N/D (RE)
- BASSHAM, J. A., S. A. BARKER, M. CALVIN, AND U. C. QUARCK. Intermediates in the photosynthetic cycle. Biochim. Biophys. Acta 21(2): 376-377. Au (*Scenedesmus*)
- BASSHAM, J. A., AND M. CALVIN. Photosynthesis. In Green, D. E. (ed.), Currents in biochemical research. 1956. Pp. 26-69. New York: Interscience Publ.
- . Some applications of tracer technique with  $C^{14}$  in plant biochemistry. I. Photosynthesis. In Bugher, J. C. et al. (ed.), Progress in nuclear energy. Series VI. Biological sciences. Pp. 115-132. New York: McGraw-Hill Book Co.
- BASSHAM, J. A., K. SHIBATA, K. STEENBERG, J. BOURDON, AND M. CALVIN. The photosynthetic cycle and respiration: light-dark transients. Univ. Calif. Rad. Lab. Rept. 3331. 16 pp. 1 Mr; J. Am. Chem. Soc. 78(16): 4120-4124. 20 Au (*Scenedesmus*)
- BATHAM, E. J. Ecology of southern New Zealand sheltered rocky shore. Trans. R. Soc. N. Z. 84(2): 447-465. D
- BATTAGLIA, E. The concept of pseudopolyploidy. Caryologia 8(2): 214-220. (incl. discussion of *Spirogyra*)
- BAUCII, R. Mitosegiftwirkung auf Algen. C. R. 5me Congr. Int. Bot. 17: 45-47. 1955 (colehiene, coffein)
- . Biologisch-ökologische Studien an der Gattung *Fucus*. II. Pigmentsynthese und Pigmentzerstörung beim Blasenang und die Bedeutung tierischer Exkrete für die Algenentwicklung im Litoral. Wiss. Z. Univ. Greifswald, Math.-Nat. 5(5/6): 317-332.
- BAYLEY, S. T. (Abstr.) X-ray and infrared studies on carrageenin. In Braarud & Sørensen, pp. 3-4.
- BEAN, R. C., AND W. Z. HASSID. Carbohydrate oxidase from a red alga, *Iridophycus flaccidum*. J. Biol. Chem. 218(1): 425-436. Ja
- . Enzymatic oxidation of glucose to gluconone in a red alga. Science 124(3213): 171-172. 27 J1 (*Iridophycus flaccidum*)
- BEHRE, K. Die Algenbesiedlung einiger Seen um Bremen und Bremerhaven. Veröff. Inst. Meeresf. Bremerhaven 4(2): 221-383. (*Anabaena*, *Euglena*, *Tropidoseyphus*, *Chlorogonium*, *Cosmarium*, sp. nov.)
- . Die Süßwasser-algen der Wallacea-Expedition (ohne die Diatomeen und Peridineen). Arch. Hydrobiol. Suppl. 23(1): 1-104. Mr (*Dactylococcopsis*, *Anabaenopsis*, *Phacus*, *Characium*, *Echinospaeridium*, *Lagerheimia*, *Dactylophaerium*, *Coelas-*

- trum*, *Cosmarium*, *Staurastrum*, *Fuustrum*, sp. nov.)
- BEICHER, J. H. On the occurrence of *Bangia atropurpurea* (Roth) Ag. in a freshwater site in Britain. *Hydrobiologia* 8(3/4): 298-299. 30 D
- BELL, R. Aquatic and marginal vegetation of strip mine waters in southern Illinois. *Trans. Ill. Acad. Sc.* 48: 85-91. 1 Au (incl. *Chara*)
- BENVENISTE, G., AND M. L. KASTENS. World Symposium on Applied Solar Energy. *Science* 123(3202): 826-831. 11 My (incl. *Chlorella*)
- BERG, K. Professor C. Wesenberg-Lund. *Hydrobiologia* 8(1/2): 191-192. 30 Au
- BERG, K., AND I. C. PETERSEN. Studies on the humic acid lake Gribssø. With contributions by Kaj Hansen, Per Wolthers, and Gunnar Nygaard. *Folia Limnol. Scand.* no. 8. 273 pp.
- BERNARD, F. Contribution à la connaissance du détroit de Gibraltar. (Hydrographie et nanoplankton en juin 1954). *Bull. Inst. Océanogr.* 53(1074): 22 pp. 24 F
- . Eaux atlantiques et méditerranéennes au large de l'Algérie. II. Courants et nanoplankton de 1951 à 1953. *Ann. Inst. Océanogr.* 31(4): 231-334. 20 M\*
- BERNSTEIN, E. O., AND T. J. JAHN. (Abstr.) The growth and sexuality of *Chlamydomonas*. *J. Protozool.* 3(suppl.): 7. Au
- BETH, K. Amputation und Stiellänge bei *Acetabularia*. *Naturwissenschaften* 43(13): 307-308. J1
- . Verfrühte Hutbildung bei *Acetabularia* als Folge nächtlicher Kältebehandlung. *Ibid.* 308-309.
- BETHGE, H. Willi Krieger, 1886-1954. *Ber. Deutsch. Bot. Ges.* 68a(Nachrufe 2): 141-143. 19 Mr (portrait)
- BIEBL, R. Zellphysiologisch-ökologische Untersuchungen an *Enteromorpha clathrata* (Roth) Greville. *Ibid.* 69(2): 75-86. 31 Mr
- . Lichtresistenz von Meeresalgen. *Protoplasma* 46(1/4): 63-89.
- BIERI, R. A method for the microscopic examination and manipulation of plankton on board ship. *J. Conseil* 22(1): 38-41. O
- BINET, P. *Revue de biologie végétale* marine. I. La pression osmotique des algues marines. *Bull. Soc. Bot. France* 103 (5/6): 376-385. II. L'émersion des algues marines: étude physiologique. *Ibid.* 386-400. 29 S
- BISHOP, N. I., AND H. GAFFRON. (Abstr.) The reduction of ferricyanide by *Chlamydomonas*. *Pl. Physiol.* 31(suppl.): xviii. J1
- BISWAS, B. B. Chemical nature of nucleic acids in Cyanophyceae. *Nature* 177(4498): 95-96. 14 Ja
- \*BISWAS, K. Plant organisms in the river Hooghly. *J. Se. Club [Calcutta]* 10: 34-35. Je/Au
- \*BJÖRKMAN, L., M. BJÖRKMAN, A. BRESKY, L. ENEBO, AND J. RENNØRFELT. Experiments on the culture of *Chlorella* for food purposes. *Acta Polytech.* no. 176. 18 pp. 1955
- BLACKLER, H. Observations on the time of reproduction and the rate of growth of certain Fucaeae. *In* Braarud & Sørensen, pp. 158-162.
- . Further additions to the algal flora of St. Andrews, Fife. *Trans. Proc. Bot. Soc. Edinburgh* 37(1): 46-60.
- . The phenology of certain algae at St. Andrews, Fife. *Ibid.* 61-78.
- BLUM, J. L. Zygnemataceae of western New York. *I. Pap. Mich. Acad. Sc. Arts Lett.* 41: 3-19.
- . The ecology of river algae. *Bot. Rev.* 22(5): 291-341. My
- . The application of the climax concept to algal communities of streams. *Ecology* 37(3): 603-604. J1
- \*BOCK, O. Die Algenfunde aus dem Spessart und aus seinem Vorland. *Nachr. Naturw. Mus. Aschaffenburg* 51: 41-69. My
- \*———. Von den Algen des Sumpfes "Grosse Scewiese" bei Kist (Würzburg); eine Jahresreihenuntersuchung. *Ibid.* 52: 1-78. Au
- BOCK, O., AND W. BOCK. Zygnemales aus Unterfranken. *Arch. Hydrobiol.* 52(3): 406-448. O (*Mougeotia*, *Spirogyra*, *Zygnema*, sp. nov.)
- BOGEN, H. I. (Abstr.) Nichtosmotische Aufnahme von Wasser und gelösten Anektrolyten. *Angew. Chem.* 68(1): 74. 21 Ja (incl. *Melosira*)

- BOILD, H. C. Some aspects of the classification of the plant kingdom. Ass. Southeast. Biol. Bull. 3(3): 35-38, 51. S (Abstr. *Ibid.* 3(1): 8. Mr)
- BONGERS, L. H. J. Aspects of nitrogen assimilation by cultures of green algae. Meded. Landbouoges. Wageningen 56(15). 52 pp. (*Chlorella*, *Scenedesmus*)
- BOOTH, E. A method for drying seaweed using a steam-heated drum dryer. J. Sc. Food Agr. 7(11): 705-710. N
- BORRELLI, A. La répartition de *Bifurcaria tuberculata* Staekh. C. R. 5me Congr. Int. Bot. 17: 58-60, 1955
- . Quelques zones de végétation facultatives sur le littoral de la région de Trébeurden (C.-du-N.). Bull. Lab. Marit. Dinard 42: 56-61. O
- BORGERS, J. A., AND J. A. KITCHING. Reactions of the flagellate *Astasia longa* in gradients of dissolved carbon dioxide. Proc. R. Soc. [London] 144B(917): 507-519. 13 Mr
- BOURRELLY, P. Initiation pratique à la systématique des algues d'eau douce (V). Bull. Micr. Appl. n.s. 6(4): 122-141. J1 (Phacotaceae, Volvocaceae, Haematococaceae, Spondylomoraceae)
- BOWEN, H. J. M. The biogeochemistry of strontium. Adv. Sc. 12(49): 585-588. Je (review)
- . Strontium and barium in sea water and marine organisms. J. Mar. Biol. Ass. U.K. 35(3): 451-460. O
- BOWMAN, H. H. M. Salinity data on marine and inland waters and plant distribution. Ohio J. Sc. 56(2): 101-106. Mr
- BRAARUD, T. Haakon Hasberg Gran, 1870-1955. J. Conseil 21(2): 121-124; Deep-Sea Res. 3(3): 232-233. Ap
- BRAARUD, T., G. DEFLANDRE, P. HALLDAL, AND E. KAMPTNER. Terminologie, nomenclature et systématique chez les Coccolithophoridés. C. R. 5me Congr. Int. Bot. 17: 69-70. 1955
- BRAARUD, T., AND N. A. SØRENSEN (ed.). Second International Seaweed Symposium (held in Trondheim, July 1955). London: Pergamon Press. xiv, 220 pp. (Ref.: Davy de Virville, A., Rev. Gén. Bot. 64(760): 315-316. Je 1957; Woodward, F. N., Deep-Sea Res. 4(4): 291. 1957)
- BRANDES, D., AND R. N. ELSTON. An electron microscopical study of the histochemical localization of alkaline phosphatase in the cell wall of *Chlorella vulgaris*. Nature 177(4502): 274-275. 11 F
- BREWER, R. Diatom skeletons and sponge spicules in soils. Austral. J. Sc. 13(6): 197-198. Je
- BROATCH, W. N., AND C. T. GREENWOOD. The molecular weight of laminarin. Chem. & Ind. 1956(38): 1015. 29 S
- BROOK, A. J. A note on the ecology of the terrestrial alga, *Fritschiella tuberosa*, in the Sudan. New Phytol. 55(1): 130-132. Ja
- . Some botanical problems of freshwater fisheries research. Proc. Linn. Soc. London 167(1): 71-73. 12 J1
- BROOK, A. J., AND W. B. WOODWARD. Some observations on the effects of water inflow and outflow on the plankton of small lakes. J. Anim. Ecol. 25(1): 22-35. My
- BROOKS, F. A. More food from solar energy. Proc. World Symp. Appl. Solar Energy [Phoenix, Arizona, 1955], pp. 221-225.
- BROUARDEL, J., AND E. RINCK. Détermination de la production de matière organique en Méditerranée à l'aide du <sup>14</sup>C. C. R. Acad. Sc. 243(22): 1797-1800. 26 N
- BROWN, F., W. F. J. CUTHBERTSON, AND G. E. FOGG. Vitamin B<sub>12</sub> activity of *Chlorella vulgaris* Beij. and *Anabaena cylindrica* Lemm. Nature 177(4500): 188. 28 Ja
- BRUCE, V. G., AND C. S. PITTENDRIGH. Temperature independence in a unicellular "clock." Proc. Natl. Acad. Sc. 42(9): 676-682. 15 S (*Euglena gracilis* strain z)
- BRUNEL, J. Addition du *Stephanodiscus bindcranus* à la flore diatomique de l'Amérique du Nord. Nat. Canad. 83(5): 89-95. My
- . (Abstr.) Le *Chaetoceros tortuicetus* Mangin dans la baie des Chaleurs. Ann. ACFAS 22: 55. 20 Au
- . (Abstr.) Analyse tabulaire

- photomicrographique de quelques *Peridinium*. *Ibid.*
- BÜCKMANN, A. Marine Fischereibiologie und allgemeine Meeresbiologie, *Experientia* 12(11): 405-411. 15 N
- BÜNNING, E. Bewegungen. *Fortschr. Bot.* 18: 347-364.
- . Die physiologische Uhr. *Naturw. Rundschau* 9(9): 351-357. S (incl. *Oedogonium*)
- BÜNNING, E., AND G. SCHNEIDER-HÖHN. Über das Aktionsspektrum der phototaktischen Reaktionen von *Euglena*. *Arch. Mikrobiol.* 24(1): 80-90. 24 F
- BUNTING, W., AND J. W. G. LUND. A new blue-green alga epizooic on *Daphnia pulex* L. *Naturalist* 858: 88-90. 1 J1 (*Lyngbya*, sp. nov.)
- BURROWS, E. M. Growth control in the Fucaeace. In Braarud & Sørensen, pp. 163-170.
- . (Abstr.) A preliminary survey of the sublittoral algae of Port Erin Bay, Isle of Man. *Phyc. Bull.* 4: 14-15. My
- BURSCHE, E. M. Richard Kolkwitz 1873-1956. *Z. Fisch. u.s.* 5(1/2): 1-2. S (portrait)
- BURSTRÖM, H. Nitrate reduction. In Høllaender, A. (ed.), *Radiation biology* 3: 443-462.
- BUTLER, P. M. The influence of the Coniston Limestone on the fauna and flora. A preliminary investigation. *Naturalist* 858: 97-106. 1 J1 (near Lake Windermere, England)
- CABEJSZEK, I., Z. MELANOWSKI, AND S. WLODEK. Plankton of the Bug River. *Polska Arch. Hydrobiol.* 3: 189-202. (PRE)
- CALVIN, M. The photosynthetic carbon cycle. *J. Chem. Soc.* 1956: 1895-1915. Je; *Proc. 3rd Int. Congr. Biochem.* 211-225.
- . Der Photosynthese-Cyclus. *Angew. Chem.* 68(8): 253-264. 21 Ap
- . Le cycle de la photosynthèse. *Bull. Soc. Chim. Biol.* 38(11): 1233-1244.
- CAMPION, M. A survey of the green algae epiphytic on the shells of some freshwater molluscs. *Hydrobiologia* 8(1/2): 38-53. 30 Au
- CANTONI, G. L., AND D. G. ANDERSON. Enzymatic cleavage of dimethylpropiothetin by *Polysiphonia lanosa*. *J. Biol. Chem.* 222(1): 171-177. S
- CARAM, B. Sur l'alternance de générations chez *Chordaria flagelliformis*. *C. R. 8me Congr. Int. Bot.* 17: 15-16. 1955
- CAVE, M.S., AND M. A. POCOCK. The variable chromosome number in *Astrephomene gubernaculifera*. *Am. J. Bot.* 43(2): 122-134. 28 F
- CHADEFAUD, M. Sur les physodes et les oléocorps des Dietyotacées. *Rev. Alg. u.s.* 2(1/2): 3-25. Mr
- . Sur un *Labyrinthula* de Roseoff. *C. R. Acad. Sc.* 243(22): 1794-1797. 26 N (in *Taonia* and *Ectocarpus*)
- CHAPMAN, G. Aspects of the fauna and flora of the Azores. VI. The density of animal life in the coralline alga zone. *Ann. Mag. Nat. Hist. ser. 12*, 8(95): 801-805. N 1955
- CHAPMAN, V. J. The marine algae of New Zealand. Part I. Myxophyceae and Chlorophyceae. *J. Linn. Soc. London, Bot.* 55(360): 333-501. 20 J1 (*Ulothrix*, *Monostroma*, *Ulva*, *Enteromorpha*, *Prasiola*, *Ectocladia*, *Cladophorocella*, *Chaetomorpha*, *Rhizoclonium*, *Bryopsis*, *Faucheria*, sp. nov.) (Ref.: Drew, K. M., *Nature* 178(4542): 1102-1103. 17 N)
- CHESTERS, C. G. C., A. APINIS, AND M. TURNER. Studies of the decomposition of seaweeds and seaweed products by micro-organisms. *Proc. Linn. Soc. London* 166(1/2): 87-97. F (laminarin, alginates)
- CHESTERS, C. G. C., AND J. A. SPOTT. The production of antibiotic substances by seaweeds. In Braarud & Sørensen, pp. 49-54.
- CHESTERS, C. G. C., M. TURNER, AND A. APINIS. Decomposition of laminarin by micro-organisms. *Ibid.* 141-144.
- CHEW, F. A tentative method for the prediction of the Florida red tide outbreaks. *Bull. Mar. Se. Gulf Carib.* 6(4): 292-304. D
- CHIHARA, M. Studies on the life-history of the green algae in the warm seas around Japan (4). On the life-history of *Halimeda cuneata* Horing (1). *J. Jap. Bot.* 31(4): 102-110. Ap (JE)
- CHIU, B. T. (Abstr.) Seaweeds of

- economic importance in South China. In Braarud & Sprensen, pp. 171-172.
- CHOLNOKY, B. J. Diatomeengesellschaften aus Donauauen oberhalb von Wien. Verh. Zool.-Bot. Ges. Wien 95: 76-87. 1955 [1956]
- . Neue und seltene Diatomeen aus Afrika—II. Diatomeen aus dem Tugela-Gebiete in Natal. Österr. Bot. Z. 103(1): 53-97. 22 Mr. (*Cymbella*, *Diploneis*, *Eunotia*, *Frustulia*, *Mastogloia*, *Navicula*, *Nitzschia*, *Pinularia*, *Surirella*, sp. nov.)
- CHRISTENSEN, E. M. Bibliography of Utah aquatic biology. Proc. Utah Acad. Sc. Arts Lett. 33: 91-100.
- CHRISTENSEN, T. Comments on the phylogeny of Siphonocladales. C. R. 8me Congr. Int. Bot. 17: 71-72. 1955
- . Studies on the genus *Vaucheria* III. Remarks on some species from brackish water. Bot. Not. 109(2): 275-280. 16 JI
- . F. Børgesen, 1/1 1866—22/3 1956. Naturh. Tid. 20:33-34. (D) (portrait)
- CHUNG, Y. H. A study on *Euglena* in the area of Seoul. Universitäts Seoul-ensis 3: 49-55.
- CHURCHILL, M. A., AND R. A. BUCKINGHAM. Statistical method for analysis of stream purification capacity. Sewage Ind. Wastes 28(4): 517-537. Ap
- CIFERRI, O. Thiamine-deficiency of *Prototheca*, a yeast-like achloric alga. Nature 178(4548): 1475-1476. 29 D
- CIRILLO, V. P. Induction and inhibition of adaptive enzyme formation in a phytoflagellate. Proc. Soc. Exper. Biol. Med. 88(3): 352-354. Mr 1955 (*Polytoma*)
- . Induced enzyme synthesis in the phytoflagellate, *Polytoma*. J. Protozool. 3(2): 69-74. My
- CLAES, H. Biosynthese von Carotinoiden bei *Chlorella*. 2. Mitt.: Tetrahydrolycopin und Lycopin. Z. Naturf. 11b(5): 260-266. My
- CLENDENNING, K. A., AND T. E. BROWN. Photosynthesis in heavily centrifuged algae. Physiol. Pl. 9(4): 515-518. (*Nostoc* and *Chlorella*)
- CLENDENNING, K. A., T. E. BROWN, AND H. C. EYSTER. Comparative studies of photosynthesis in *Nostoc muscorum* and *Chlorella pyrenoidosa*. Can. J. Bot. 34(6): 943-966. 30 N
- CLENDENNING, K. A., AND F. T. HAXO. Photosynthetic induction in marine algae. *Ibid.* 34(2): 214-230. 15 Mr
- CLOVIS, J. F. Ecological association types in the Italy Hill (N.Y.) swamp area. Diss. Abstr. 16(5): 850-851. My (Cornell Univ.)
- COLLEMAN, J. W., A. S. HOLT, AND E. RABINOWITZ. Reversible bleaching of chlorophyll *in vivo*. Science 123(3201): 795-796. 4 My (*Chlorella*)
- CONGER, P. S. Lesson of the diatoms. Am. Biol. Teacher 18(6): 187-193. O
- CONOVER, S. A. M. Oceanography of Long Island Sound, 1952-1954. IV. Phytoplankton. Bull. Bingham Oceanogr. Coll. 15: 62-112. F
- COOKE, W. B. Colonization of artificial bare areas by microorganisms. Bot. Rev. 22(9): 613-638. N
- COPELAND, H. F. The classification of lower organisms. Palo Alto, California: Pacific Books. ix, 302 pp. (Ref.: Ainsworth, G. C., Brit. Myc. Soc. Trans. 40(1): 175. Mr 1957; Cook, W. B. Ecology 38(1): 185-186. Ja 1957)
- CORBELLA, C., N. DELLA CROCE, AND O. RAVERA. Plancton, bentos e chimismo delle acque e dei sedimenti in un lago profondo (Lago Maggiore). Mem. Ist. Ital. Idrobiol. 9: 125-264. (phytoplankton: 177-203)
- CORBETT, J. J. (Abstr.) Factors influencing initial expansion of *Euglena gracilis* in fresh medium. J. Protozool. 3(suppl.): 12. Au
- . (Abstr.) Occurrence of lag phase due to vitamin depletion of *Euglena gracilis*. *Ibid.*
- CORILLION, R. Les Charophycées de France et d'Europe occidentale. Étude systématique, écologique, phytosociologique et phytogéographique. Bull. Soc. Sc. Bretagne 30: 59-61. 25 O
- CORLISS, J. O. Dr. Eugène Penard. Proc. Linn. Soc. London 166(1/2): 42-44. F
- COULON, F. Über die Fettbildung und den Plastidenformwechsel bei *Nit-*

- zschia palca*. Arch. Protistenk. 101 (4): 443-476. 1 D
- COWEY, C. B. A preliminary investigation of the variation in vitamin B<sub>12</sub> in oceanic and coastal waters. J. Mar. Biol. Ass. U.K. 35(3): 609-620. O
- CRIBB, A. B. Notes on marine algae from Tasmania. Pap. Proc. R. Soc. Tasmania 90: 183-188.
- . A new terrestrial alga from Australia. Proc. R. Soc. Queensland 77: 25-26. 23 J1 (*Oedocladium*, sp. nov.)
- . Records of marine algae from south-eastern Queensland—II. *Poly-siphonia* and *Lophosiphonia*. Univ. Queensland Pap. Dept. Bot. 3(16): 131-147. 5 N
- CRIBB, A. B., AND J. W. CRIBB. Marine fungi from Queensland—II. *Ibid.* 3(12): 97-105. 30 N (incl. *Haloquignardia*, gen. nov., ascomycete on *Sargassum*)
- CROASDALE, H. Freshwater algae of Alaska I. Some desmids from the interior. Part 2: *Actinotaenium*, *Micrasterias* and *Cosmarium*. Trans. Am. Mic. Soc. 75(1): 1-70. Ja (*Cosmarium*, sp. nov.)
- . A correction in the names of two species of Heterokontae. Rhodora 58(690): 161-162. Je
- CURL, H. C., JR. The hydrography and phytoplankton ecology of the inshore, northeastern Gulf of Mexico. Diss. Abstr. 16(11): 2003. N (Florida State Univ.)
- \*CUSHING, D. H. Phytoplankton and the herring: Part V. Gt. Brit. Minist. Agr. Fish. Food, Fish. Invest., ser. 2, 20(4): 18 pp.
- DAILY, F. K., AND W. KIENER. The Characeae of Nebraska—additions and changes. Butler Univ. Bot. Stud. 13(1): 36-46. D
- DAILY, W. A. Notes on the algae—IV. *Ibid.* 47-48. (*Peridinium* in Indiana)
- DAINTY, J., AND E. A. C. MACROBIE. Sodium and potassium transport in the seaweed *Rhodymenia palmata*. Proc. R. Phys. Soc. Edinburgh 24(2): 38-43. D 1955
- DALGLIESH, C. E., AND R. W. DUTTON. The preparation of uniformly <sup>14</sup>C-labelled substances on a laboratory scale, with special reference to L-tryptophan. J. Chem. Soc. 1956: 3784-3791. O (incl. *Chlorella*)
- DANGEARD, P. Le vacuome de la cellule végétale. Morphologie. In Heibrunn, L. V., and F. Weber (ed.), Protoplasmatologia 3, D(1). 41 pp. (algae: 25-34)
- DANGEARD, J., AND H. PARRIAUD. Sur quelques cas de développement apogamique chez deux espèces de *Codium* de la région du Sud-ouest. C. R. Acad. Sc. 243(25): 1981-1983. 17 D (France)
- DANIEL, A. L. Stoffwechsel und Mineralsalznahrung einzelliger Grünalgen. III. Atmung und oxydative Assimilation von *Chlorella*. Flora 143(1): 31-66. 20 F
- DANIELS, F. Energy efficiency in photosynthesis. In Hollander, A. (ed.), Radiation biology 3: 259-292.
- DANIELS, F., AND J. A. DUFFIE. (ed.). Solar energy research. Madison: Univ. Wisconsin Press. xv, 290 pp.
- DAO, S. A. A propos de l'action du tryptophane sur l'*Acetabularia mediterranea* Lamour. C. R. Acad. Sc. 243(20): 1552-1554. 12 N
- DAVIS, C. C. Notes on a bloom of *Euglena haematodes* in Ohio. Ecology 37(1): 192-193. Ja
- DAVY DE VIRVILLE, A. Projet de cartographie des plantes marines utiles à l'industrie. In Braarud & Sørensen, pp. 215-217.
- . Second International Seaweed Symposium. Rev. Gén. Bot. 63-(744): 104. F; Rev. Alg. n.s. 2(1/2): 129-130. Mr
- DAWSON, E. Y. How to know the seaweeds. Dubuque, Iowa: Wm. C. Brown Co. 197 pp., 259 figs.
- . Some marine algae of the southern Marshall Islands. Pac. Sc. 10(1): 25-66. Ja
- DECKART, M., AND K. LÖFFLATH. *Volvox*, die "Kugelalge." Mikrokosmos 45(7): 145-148. Ap
- DELANY, M. J. The mass culture of a presumably autotrophic dinoflagellate. Am. Midl. Nat. 56(1): 126-132. J1 (*Amphidinium ovoidum*)
- DEMETER, O. Über Modifikationen bei Cyanophyceen. Arch. Mikrobiol. 24(2): 105-133. 31 Mr
- DENIZOT, M. Un essai de montage



- rapide des algues. Rev. Alg. n.s. 2(1/2): 134-135. Mr
- DESIKACHARY, T. V. Observations on two species of *Liagora* (Rhodophyta). Pac. Sc. 10(4): 423-430. O. (*L. maxima*, *L. papenfussii*)
- DeVOE, R., G. T. SCOTT, AND G. CRAVEN. (Abstr.) The reversible replacement of potassium by rubidium ion in *Ulva lactuca*. Biol. Bull. 111(2): 296. O
- DEWAR, E. T. Sodium laminarin sulphate as a blood anticoagulant. In Braarud & Sørensen, pp. 55-61.
- DISKUS, A. Färbestudien an den Schleimkörperchen und Schleimabscheidungen einiger Euglenen. Protoplasma 45(3): 460-477.
- DIZERBO, A. H. Notes sur la flore algologique du Portugal. Bol. Soc. Port. Ciên. Nat. 21: 215-219.
- . Notes sur la flore marine de la côte atlantique de l'Espagne. Coll. Bot. 5(1): 269-278.
- DOTY, M. S., AND M. OGURI. The island mass effect. J. Conseil 22(1): 33-37. O (plankton production)
- DOTY, M. S., M. OGURI, AND R. PYLE. (Abstr.) Aspects of oceanic productivity in the eastern tropical Pacific. Proc Hawaiian Acad. Sc. 31:20.
- DOUGHERTY, E. C. (Abstr.) "Parasexuality" should be sought in the primitive Protista. J. Protozool. 3(suppl.): 11-12. Au
- DOUGHERTY, E. C., AND M. B. ALLEN. (Abstr.) Some pigment "mutants" of *Cyanidium caldarium* (Division (?) Chlorophyta). *Ibid.* 12.
- DOUGLAS, B., T. T. MACAN, AND J. C. MACKERETH. Abstracts of papers in the field of freshwater biology published in British journals in 1954. Hydrobiologia 8(3/4): 300-322. 30 D
- DOUIN, R. Sur le polymorphisme de *Anabaena cycadeae* Reinke. Rev. Gén. Bot. 63(752): 477-481. O
- DRAWERT, H., AND I. METZNER. Fluoreszenz- und elektronenmikroskopische Beobachtungen an *Cylindrocapsa* und einigen anderen Cyanophyteen. Ber. Deutsch. Bot. Ges. 69(7): 291-300. 29 O
- DRAWERT, H., AND I. TISCHER. Über Redox-Vorgänge bei Cyanophyteen unter besonderer Berücksichtigung der Heterocysten. Naturwissenschaften 43(6): 132. Mr
- DREW BAKER, K. M. (Abstr.) The generic names *Goniotrichum* Kütz. & *Erythrotrichia* Aresch. Phye. Bull. 4: 13-14. My
- . *Conferva ceramicola* Lyngbye. Bot. Tidsskr. 53(1): 67-74. 28 Je
- . Reproduction in the Bangiophyceae. Bot. Rev. 22(8): 553-611. O
- DREWS, G., AND W. NIKLOWITZ. Beiträge zur Cytologie der Blaualgen. II. Zentroplasma und granuläre Einschlüsse von *Phormidium uncinatum*. Arch. Mikrobiol. 24(2): 147-162. 31 Mr
- DROOP, M. R. *Haematococcus pluvialis* and its allies. I. The Sphaerellaceae. Rev. Alg. n.s. 2(1/2): 53-71. Mr (*Ballicola*, gen. nov.) II. Nomenclature in *Haematococcus*. *Ibid.* 2(3): 182-192. D
- DROUET, F. A preliminary study of the algae of northwestern Minnesota. Proc. Minn. Acad. Sc. 22: 116-138. Mr
- DROUET, F., AND W. A. DAILY. Revision of the coccoid Myxophyceae. Butler Univ. Bot. Stud. 12: 1-218. Je (Ref.: Bourrelly, P., Bull. Soc. Bot. France 103(7/8): 550-551. 20 Ja 1957; Skuja, H., Svensk Bot. Tidsskr. 50(4): 550-556. 31 D 1956)
- DUNCAN, W. A. M., D. J. MANNERS, AND A. G. ROSS. Enzyme systems in marine algae. The carboxylase activities of unfractionated extracts of *Cladophora rupestris*, *Laminaria digitata*, *Rhodomenia palmata* and *Ulva lactuca*. Biochem. J. 63(1): 44-51. My
- DURAN, M., F. SAIZ, M. LOPEZ-BENITO, AND R. MARGALEF. El fitoplancton de la ría de Vigo, de abril de 1954 a junio de 1955. Invest. Pesq. 4: 67-95. Ap
- DUTTON, R. W., AND C. E. DALGLIESH. An apparatus for preparative photosynthesis of <sup>14</sup>C-labelled substances. J. Chem. Soc. 1956: 3792-3796. O (incl. *Chlorella*)
- DUXBURY, A. C., AND C. S. YENTSCHEI. Plankton pigment nomographs. J. Mar. Res. 15(1): 92-101. 15 O
- DUYSENS, L. N. M. Energy trans-

- formations in photosynthesis. *Ann. Rev. Pl. Physiol.* 7: 25-50.
- . The flattening of the absorption spectrum of suspensions, as compared to that of solutions. *Biochim. Biophys. Acta* 19(1): 1-12. Ja (*Chlorella*)
- . Studies on catalysts in the photosynthesis of *Chlorella* by means of sensitive absorption spectrophotometry. *Rés. Comm 3<sup>e</sup> Congr. Int. Biochim.* 43. 1955
- EBERSOLD, W. T. Crossing over in *Chlamydomonas reinhardi*. *Am. J. Bot.* 43(6): 408-410. 30 Je
- EDDY, B. P. The suitability of some algae for mass cultivation for food, with special reference to *Dunaliella bioculata*. *J. Exper. Bot.* 7(21): 372-380. S
- EDMONDSON, W. T. The relation of photosynthesis by phytoplankton to light in lakes. *Ecology* 37(1): 161-174. Ja
- EDMONDSON, W. T., G. C. ANDERSON, AND D. R. PETERSON. Artificial eutrophication of Lake Washington. *Limnol. & Oceanogr.* 1(1): 47-53. Ja
- EL-MAGHIRABY, A. M., AND E. J. PERKINS. The marine diatoms of Whitsable. *Ann. Mag. Nat. Hist.*, ser. 12, 9(104): 561-568. Au
- ELROD, L. M. The relation between the concentration of potassium cyanide and growth and respiration in *Chilomonas paramecium*. *Growth* 20(3): 187-194. S
- EMEIS, C. C. Untersuchungen über die antibakteriellen Eigenschaften der Algen. *Arch. Hyg. Bakt.* 140(8): 597-604. 15 D (*Nitzschia*)
- EMERSON, R., R. CHALMERS, C. CEDERSTRAND, AND M. BRODY. (Abstr.) Effect of temperature on the long-wave limit of photosynthesis. *Science* 123(3199): 673. 20 Ap (*Chlorella*, *Porphyridium*)
- EMERY, K. O., AND D. C. COX. Beach-rock in the Hawaiian Islands. *Pac. Sc.* 10(4): 382-402. 16 N (brief reference to blue-green algae)
- ENDEAN, R., R. KENNY, AND W. STEPHENSON. The ecology and distribution of intertidal organisms on the rocky shore of the Queensland mainland. *Austral. J. Mar. Freshwater Res.* 7(1): 88-146. Ap
- ENGINGER, M. Les extraits d'algues marines. *Chim. et Industr.* 76(4): 758-760. O
- ENOMOTO, Y. On the occurrence and the food of *Noctiluca scintillans* (Macartney) in the water adjacent to the west coast of Kyushu, with special reference to the possibility of the damage caused to the fish eggs by that plankton. *Bull. Jap. Soc. Se. Fish.* 22(2): 82-88. Je
- ERCEGOVIC, A. Famille des Champi-accées (Champiaceae) dans l'Adriatique moyenne. *Acta Adriatica* 8(2). 63 pp. 25 Je (*Lomcnaria*, *Chylocladia*, sp. nov.)
- \*ERMOLAEVA, L. M. De specie nova generis *Gomphonema* Ag. *Bot. Mater., Otd. Spor. Rast., Bot. Inst. Akad. Nauk SSSR* 11: 49-50. 1 Ja (R)
- ERSKINE, D. Two red algae new to Nova Scotia. *Can. Field-Nat.* 69(4): 150-151. O/D 1955 [18 D 1956] (*Achroactium alariae*, *Trailiella intricata*)
- ESCHRICH, W. Kallöse. *Protoplasma* 47(3/4): 487-530. (review, incl. *Caulerpa*: 505-507)
- ETTL, H. Ein Beitrag zur Systematik der Heterokonten. *Bot. Not.* 109(4): 411-445. 22 D (Pleurochloridellales, Malleodendrales, ord. nov.; Pleurochloridellaceae, Characidiopsidaceae, fam. nov.; *Heterodesmus*, gen. nov.; *Characidiopsis*, *Chytridiochloris*, *Heterothrix*, *Tribonema*, sp. nov.)
- EVERSOLE, R. A. Crossover frequency studies with biochemical mutants of *Chlamydomonas*. *Diss. Abstr.* 16(4): 636. Ap (Stanford Univ.)
- . Biochemical mutants of *Chlamydomonas reinhardi*. *Am. J. Bot.* 43(6): 404-407. 30 Je
- EVERSOLE, R. A., AND E. I. TATUM. Chemical alteration of crossing-over frequency in *Chlamydomonas*. *Proc. Natl. Acad. Sc.* 42(2): 68-73. F
- EYSTER, C., T. E. BROWN, S. L. HOOD, AND H. A. TANNER. (Abstr.) The role of manganese in growth, photosynthesis, respiration, and Hill reaction, using *Chlorella pyrenoidosa* and spinach chloroplasts. *Pl. Physiol.* 31 (suppl.): xvii. J1
- EYSTER, C., T. E. BROWN, AND H. A. TANNER. Manganese requirement

- with respect to respiration and the Hill reaction in *Chlorella pyrenoidosa*. Arch. Biochem. Biophys. 64(1): 240-241. S
- FAN, K. C. Revision of *Calothrix* Ag. Rev. Alg. n.s. 2(3): 154-178. D
- FARIDI, M. A. F. A new species of *Nitella* from West Pakistan. Biologia [Lahore] 2(2): 254-255. D
- FEINSTEIN, A. Correlations of various ambient phenomena with red tide outbreaks on the Florida west coast. Bull. Mar. Sc. Gulf Carib. 6(3): 209-232. S
- FELDMANN, J. Sur la parthénogénèse du *Codium fragile* (Sur.) Hariot dans la Méditerranée. C. R. Acad. Sc. 243(3): 305-307. 16 J1
- FELDMANN, J., AND G. FELDMANN. Observations sur quelques Phycomycètes marins nouveaux ou peu connus. Rev. Myc. 20(3): 231-251. D 1955 [1956] (on *Liemophora*, *Chlorodendron*, *Ceramium*, *Chondria*)
- FETZMANN, E. L. Beiträge zur Algensoziologie. SitzBer. Österr. Akad. Wiss. Math.-Nat. Kl. Abt. I, 165(9/10): 709-781.
- FINK, H., AND E. HEROLD. Ein weiterer Beitrag zum biologischen Eiweisswert einzelliger Süßwasser-Algen und von jungem Spinat. (Zugleich ein Beitrag zur alimentären Lebernekrose der Ratte.) Naturwissenschaften 43(21): 498-499. N
- \*FISCHER, E. Beitrag zur Kenntnis unserer heimischen Rotalgen. Jahresh. Ver. Vaterländ. Naturk. Württemberg 111(2): 526-543. O (*Batrachospermum*)
- FISCHER-PIETTE, E. Sur les déplacements de frontières biogéographiques intercotidales, actuellement en cours en Espagne: situation en 1956. C. R. Acad. Sc. 242(23): 2782-2784. 4 Je
- FISH, G. R. Chemical factors limiting growth of phytoplankton in Lake Victoria. E. Afr. Agr. J. 21(3): 152-158. Ja (*Chlorella* and *Anabaena* in culture)
- FISHER, A. W., Jr. Economic aspects of algae as a potential fuel. In Daniels, F., and J. A. Duffie (ed.), Solar energy research, pp. 185-189. 1955
- . Engineering for algae culture. Proc. World Symp. Appl. Solar Energy [Phoenix, Arizona, 1955], pp. 243-253.
- FISHER, I. S., AND E. E. PERCIVAL. Water soluble polysaccharide of *Cladophora rupestris*. In Braarud & Sorensen, pp. 5-9.
- FJERDINGSTAD, E. Et dansk forsøg på bekæmpelse af planktonalger med kobbersulfat. A case of algal-control in Denmark. Vattenhygien 1956(2): 32-37. (DE)
- FLEMING, I. D., E. L. HIRST, AND D. J. MANNERS.  $\alpha$ -1:4-glucosans. Part IV. A re-examination of the molecular structure of floridean starch. J. Chem. Soc. 1956: 2831-2836. Au (*Dilsea edulis*)
- FLINT, L. H. Notes on the algal food of shrimp and oysters. Proc. Louisiana Acad. Sc. 19: 11-14. N
- FLOWER, R. H. Some paradoxes in taxonomy with reference to the Prokista. J. Paleont. 30(3): 700-706. My
- FOGG, G. E. Nitrogen fixation by photosynthetic organisms. Ann. Rev. Pl. Physiol. 7: 51-70.
- . Photosynthesis and formation of fats in a diatom. Ann. Bot. n.s. 20(78): 265-285. Ap (*Navicula pellucida*)
- . The comparative physiology and biochemistry of the blue-green algae. Bact. Rev. 20(3): 148-165. S
- FOLLMANN, G. Aktiver Transport. Die Beziehungen zwischen Stoffwechsel und Stoffaufnahme der Zelle. Mikrokosmos 46: 25-31. (*Anomoeoneis*, *Melosira*)
- . Die Permeabilitätsreihe von *Leptocylindrus adriaticus* Schroeder und das Problem der "spezifischen Diatomeen-Permeabilität." Naturwissenschaften 43(13): 306. J1
- FOREST, H. S. Phylogeny and classification in the Chlorophyceae (Ulotrichaceae and Chaetophoraceae). C. R. 8me Congr. Int. Bot. 17: 6. 1955
- . Some aspects of evolution in the isogamous, filamentous Chlorophyceae and their relation to the classification of the Chlorophyceae. Bull. Torrey Bot. Club 83(2): 141-150. 11 Ap
- . A study of the genera *Draparnaldia* Bory and *Draparnaldiopsis*

- Smith and Klyver. *Castanea* 21(1): 1-29. 14 Je
- FÖRSTER, H. Max Hartmann zum 80. Geburtstag. *Naturwissenschaften* 43(13): 289. J1 (portrait)
- FÖRSTER, H. ~~Max Hartmann zum 80.~~<sup>K. J. E. S. G.</sup> BRAUNITZER. Über das agglutinierend wirkende Gynogamon von *Chlamydomonas eugametos*. *Z. Naturf.* 11b(6): 315-317. Je
- FOSTER, W. S. Sea moss, (*Chondrus crispus*), survey, Pemaquid Point to Owls Head. Maine Dept. Sea & Shore Fish., Gen. Bull. no. 5. 8 pp. D 1955
- \*FOTT, B. Sinice a rasy. (Blaualgen und Algen). Verlag CSAV Praha. 373 pp. (Cz)
- . Nene sowjetische algologische Literatur II. *Hydrobiologia* 8(1/2): 184-190. 30 Au
- . Les Flagellés des eaux extrêmement acides. *Rev. Alg. n.s.* 2(3): 196. D
- . Flagellaten aus extrem sauren Gewässern. *Preslia* 28(2): 145-150. (CzGR)
- . *Euglena physeter* species nova. *Ibid.* 28(4): 415-416. (CzRE)
- \*FOTT, B., AND L. LUDVIK. Über den submikroskopischen Bau des Panzers von *Ceratium hirundinella*. *Ibid.* 28(3): 278-280.
- \*———. Elektronenoptische Untersuchung der Kieselstrukturen bei *Chryso-sphaerella* (Chrysomonadinac). *Ibid.* 276-278.
- FREDRICK, J. F. Physico-chemical studies of the phosphorylating enzymes of *Oscillatoria princeps*. *Physiol. Pl.* 9(3): 446-451.
- FRENCH, C. S., J. H. C. SMITH, H. I. VIRGIN, AND R. L. AIRTH. Fluorescence-spectrum curves of chlorophyll, pheophytins, phycoerythrins, and hypericin. *Pl. Physiol.* 31(5): 369-374. S
- FRENCH, C. S., AND V. M. K. YOUNG. The absorption, action, and fluorescence spectra of photosynthetic pigments in living cells and in solutions. In Hollaender, A. (ed.), *Radiation biology* 3: 343-391.
- FREUDENTHAL, P. (Abstr.) The vitamin content of algae—and its scientific consequences. In Braarud & Sørensen, p. 62.
- FRIEDMANN, I. Über die Blaualgen *Gardnerula corymbosa* (Harvey) J. De Toni und ihr Vorkommen im Mittelmeer. *österreich. Bot. Z.* 103(2/3): 336-341. 6 J1
- FUJIMOTO, Y., H. IWAMOTO, AND T. ISHII. Studies on the growth of *Chlorella* by continuous cultivation, Part II. *Bull. Agr. Chem. Soc. Japan* 20: 19-24.
- FUJIMOTO, Y., H. IWAMOTO, AND A. KATO. Studies on the growth of *Chlorella* by continuous cultivation, Part I. *Ibid.* 13-18.
- FUJISAWA, H., AND T. SUKEGAWA. Studies on the antiseptics of agar during the manufacturing process in the mild winter. I. On the effects of antiseptics on agarose. *Bull. Jap. Soc. Se. Fish.* 22(1): 30-34. My (JE)
- FUJITA, M., AND K. MIZUGUCHI. Excitation in *Nitella*, especially in relation to electric stimulation. *Cytologia* 21(2): 135-145. Je
- FUJIWARA, T. Studies on chromoproteins in Japanese nori (*Porphyra tenera*). II. Amino acid compositions of phycoerythrin and phycoerythrin. *J. Biochem.* 43(2): 195-203. Mr
- FUKASE, H. Some ecological notes on *Cloniophora plumosa*. *Bull. Jap. Soc. Phyce.* 4(2): 45-52. S (JE)
- FUKUHARA, E. Ecological studies on *Gloiopeletis fureata* Post. et Rupr. at Yoichi. *Bull. Hokkaido Reg. Fish. Res. Lab.* 14: 66-78. S (JE)
- FUKUSHIMA, H. A list of Japanese freshwater algae, including the marine species of blue-green algae and fossil diatoms 1. *J. Yokohama Municipal Univ. Ser. C-11*, no. 42. 26 pp. 1 0 1955. 2. *Ibid.* C-13, no. 46. 12 pp. 1 Mr 1956. 3. *Ibid.* C-15, no. 51. 34 pp. 30 S 1956 (JE)
- FULLER, R. C., AND M. GIBBS. (Abstr.) Aberrant patterns of some photosynthetic enzymes. *Pl. Physiol.* 31(suppl): xxxi. J1
- GAFFRON, H. (Abstr.) Hydrogenase in algae. *Ibid.* xix.
- GANAPATI, S. V. The limnology of two minor irrigation reservoirs near Madras. I. The Errakuppam Reservoir. *Hydrobiologia* 8(3/4): 365-380. 30 D

- GANDHI, H. P. A contribution to the knowledge of fresh-water Diatomaceae of south-western India. I. Fresh-water diatoms of Dharwar. *J. Ind. Bot. Soc.* 35(2): 194-209. (*Gomphonema*, sp. nov.)
- . A preliminary account of the soil diatom flora of Kolhapur. *Ibid.* 35(4): 402-408.
- GARDNER, R. G., AND T. J. MITCHELL. A study of seaweed drying. In Braarud and Sørensen, pp. 63-81.
- GAUTHIER-LIEVRE, L. Ulotrichales africaines. I. Genres *Aphanochaete* et *Coleochaete*. *Bull. Soc. Hist. Nat. Afr. Nord* 47(1/2): 31-49. Ja/F (*Coleochaete*, sp. nov.)
- GAYRAL, P. Etude cytologique de *Dichotomosiphon tuberosus* (A. Br.) Ernst. *Rev. Alg. n.s.* 2(1/2): 98-111. Mr
- GEITLER, L. Morphologie und Entwicklungsgeschichte der Zelle. *Fortschr. Bot.* 18: 1-11.
- . Über lokalisierte Karotinoidbildung und über Bau-eigentümlichkeiten des Cyanophyecenprotoplasten. *Protoplasma* 46(1/4): 213-222.
- . Automixis, Geschlechtsbestimmung und Pyknose von Gonenkernen bei *Cymbella aspera*. *Planta* 47(4): 359-373. 13 JI
- . *Oscillatoria carotinosus* n. sp. und *O. pseudacutissima* n. sp., zwei Arten mit lokalisierter Karotinoidbildung. *Österr. Bot. Z.* 103(2/3): 342-345. 6 JI
- . *Botrydina*—keine Symbiose einer Alge mit einem Moosprotoneuma. *Ibid.* 103(4): 469-474. 20 N (a sterile eumyete)
- GENTCHIEFF, J. Présence de floridoside dans le *Digena simplex* (Wulf.) Ag. *Bull. Soc. Bot. France* 103(1/2): 6-7. 16 My
- GEORGE, E. A. The occurrence of *Pyramimonas*-like zoospores in the green alga *Ecthalloecystis*. *New Phytol.* 55(3): 382-385. O
- . The Cambridge culture collection of algae and protozoa. *Rev. Alg. n.s.* 2(3): 151-153. D
- GEORGEVITCH, J. Sur l'appareil parasasal de *Proteromonas melisselensis*. *Bull. Acad. Serbe Sc. n.s.* 16, Cl. Sc. Math. Nat. no. 4: 51-55.
- GESSNER, F. Das Plankton des Lago Maracaibo. In Gessner, F., and V. Vareschi (ed.), *Ergebnisse der deutschen limnologischen Venezuela-Expedition 1952*, Band I: 67-92.
- GESSNER, F., AND V. VARESCHI (ed.). *Ergebnisse der deutschen limnologischen Venezuela-Expedition 1952*, Band I. Berlin: Deutscher Verlag der Wissenschaften. viii, 360 pp. (Ref.: Bourrelly, P., *Bull. Soc. Bot. France* 103(7/8): 549. 20 Ja 1957)
- GLBOR, A. The culture of brine algae. *Biol. Bull.* 141(2): 223-229. O
- . Some ecological relationships between phyto- and zooplankton. *Ibid.* 230-234.
- GIORDANO, C. Ricerche su alcune lipoproteine di "Spirogyra" e sulla loro alterazione nella necrosi cellulare. *Atti Accad. Sc. Torino, Cl. Sc. Fis. Mat. Nat.* 90(1): 140-152. 3 My
- GIRAUD, G. Recherches sur l'action de substances mitoclasiques sur quelques algues marines. *Rev. Gén. Bot.* 63(747): 202-233. My
- GJENK, H. O. Die jahreszeitlichen Schwankungen des Phytoplanktons im Deichendorfer Weiher bei Erlangen. *Sitzber. Physik.-Med. Soz. Erlangen* 77: 58-157. 30 My
- . *Mallomonas schwemmlci*, eine neue Chrysomonade aus dem Plankton eines fränkischen Teiches. *Ber. Deutsch. Bot. Ges.* 69(4): 189-192. 31 My
- GLOYNA, E. F., A. M. ASCE, AND E. R. HERMANN. Some design considerations for oxidation ponds. *J. Sanit. Eng. Div., Proc. Am. Soc. Civil Engrs.* 82(4), article 1047. 20 pp. Au
- GODWARD, M. B. E. Cytotaxonomy of *Spirogyra*. I, *S. submargaritata*, *S. subochinata* and *S. britannica*. *J. Linn. Soc. London, Bot.* 55(361): 532-546. 14 S (all new species)
- GORHAM, E. On the chemical composition of some waters from the Moor House Nature Reserve. *J. Ecol.* 44(2): 375-382. JI (single mention of *Chlorobotrys*)
- GORJNG, D. A. I. The effect of temperature and acidity on the dry storage of sodium carrageenate. *Can. J. Tech.* 34(1): 39-41. Ja
- GRAMBAST, L. La plaque basale des

- Characées. C. R. Acad. Sc. 242(21): 2585-2587. 23 My
- GRAVES, J. M. (Abstr.) Observations on the life-history of *Porphyra capensis*. Phyc. Bull. 4: 12. My (remarks by K. M. Drew Baker, p. 13)
- GREEN, P. B. (Abstr.) Turgor, cell wall formation, and elongation in the internode cells of *Nitella*. Pl. Physiol. 31(suppl.): v-vi. JI
- GRELL, K. G. Protozoologie. Berlin: Springer Verlag. vii, 284 pp. (Ref.: Ball, G. H., Science 125(3241): 237. 8 F 1957; Höfler, K., Verh. Zool.-Bot. Ges. Wien 96: 177-178. 1957; Thienemann, A., Arch. Hydrobiol. 53(2): 309. Ap 1957; Ulrich, H., Biol. Zentralbl. 76(5): 619-621. S/O 1957)
- . Protozoa and algae. Ann. Rev. Microbiol. 10: 307-328. (sexuality, reproduction, cytogenetics)
- GRENAGER, B. Kvantitative undersøkelser av tareforekomster i Øst-Finnmark 1953. Norsk Inst. Tang- og Tareforskning Rapp. nr. 13. 37 pp.
- GRIFFIN, G. D., AND D. M. REES. *Anabaena unisporea* Gardner and other blue-green algae as possible mosquito control factors in Salt Lake County, Utah. Proc. Utah Acad. Sc. Arts Lett. 33: 101-103.
- GRÖNBLAD, R. Desmids from the United States, collected in 1947-1949 by Dr. Hannah Croasdale and Dr. Edwin T. Moul. Comment. Biol. Soc. Sc. Fenn. 15(12). 38 pp. (*Euastrum*, *Cosmarium*, *Staurastrum*, sp. nov.)
- . Dr. Willi Krieger in memoriam. Memoranda Soc. Fauna Flora Fenn. 31: 46-48. (bibliography)
- . A contribution to the knowledge of the algae of brackish water in some ponds in the Woods Hole Region, U. S. A. *Ibid.* 63-69.
- GRØNTVED, J. Planktological contributions. II. Taxonomical studies in some Danish localities. Meddel. Danmarks Fiskeri- og Havundersøgelser n.s. 1(12). 13 pp. 1 S (*Salpingoeca*, *Protospongia*, sp. nov.)
- GROSS, J. A., AND T. L. JAHN. (Abstr.) Growth characteristics of drug-bleached Euglenas. J. Protozool. 3(suppl.): 6-7. Au
- . (Abstr.) Temperature tolerance of some bleached strains of *Euglena*. *Ibid.* 7.
- GROULX, J., AND G. ZWEIG. (Abstr.) Sulfur nutrition of *Chlorella pyrenoidosa*. Pl. Physiol. 31(suppl.): xviii. JI
- GUBERLETT, M. L. Seaweeds at ebb tide. Seattle: Univ. Washington Press. xvi, 182 pp. (handbook on Pacific coast seaweeds) (Ref.: Taylor, W. R., Garden J. 6(6): 201. N/D)
- GUERRERO, P. G. Datos fitococologicos de la cueva de Montosinos (Ossa de Montiel [Albacete]). An. Inst. Bot. A. J. Cavauilles 13:95-109. 1955
- . La estratificación ficológica en la epibiosis luso-española. Bol. Soc. Broter., ser. 2, 30: 81-102.
- GUILJARD, R. R. L., M. S. DOTY, AND M. OGURI. (Abstr.) The productivity of Pacific waters north of Hawaii as determined by C<sup>14</sup> uptake. Proc. Haw. Acad. Sc. 31: 10.
- GUPTA, U. S., K. L. MAHESHWARI, AND S. R. SENGUPTA. A method for obtaining algal cultures free from associated micro-organisms. Current Sc. 25(3): 94. Mr (filtration)
- HABEEB, H., AND F. DROUET. A second list of freshwater algae chiefly from New Brunswick. Rhodora 58-(689): 117-124. My
- HALL, R. P. (Abstr.) Induction of sensitivity to sulfanilamide by prolonged exposure of *Chilomonas* to *p*-aminobenzoic acid. J. Protozool. 3(suppl.): 13. Au
- HALLDAL, P. Phototaxis in flagellates. Carnegie Inst. Wash. Year Book 55: 259-261. 14 D (*Dunaliella*, *Platymonas*, dinoflagellates)
- HALLDAL, P., AND C. S. FRENCH. The growth of algae in crossed gradients of light intensity and temperature. *Ibid.* 261-265. (*Chlorella*, *Anacystis*)
- HÄMMERLING, J. Wirkungen von UV- und Röntgenstrahlen auf kernlose und kernhaltige Teile von *Acetabularia*. Z. Naturf. 11b(4): 217-221. Ap
- HÄMMERLING, J., AND H. STICHEL. Einbau und Ausbau von <sup>32</sup>P im Nucleolus (nebst Bemerkungen über

- intra- und extranucleare Proteinsynthese). *Ibid.* 11b(3): 158-161. Mr (*Acetabularia*)
- . Abhängigkeit des <sup>32</sup>P-Einbaues in den Nucleolus vom Energiezustand des Cytoplasmas sowie vorläufige Versuche über Kernwirkungen während der Abbauphase des Kernes. *Ibid.* 162-165.
- HAND, C. Are corals really herbivores? *Ecology* 37(2): 384-385. Ap
- HANUSKA, L., *et al.* [Biological methods for the investigation and evaluation of water.] Bratislava: Slovenska Akademia Vied. 630 pp., 128 pls. (Cz)
- HARDY, A. C. The open sea, its natural history: the world of plankton. London: Collins Press. xv, 335 pp. (Ref.: E. P., *Naturalist* 861: 73. 1 Ap 1957; Braarud, T., *J. Conseil* 23(1): 102-103. O 1957; Marshall, S. M., *Nature* 179(4555): 336. 16 F 1957)
- HARRIS, E., AND G. A. RILEY. Oceanography of Long Island Sound, 1952-1954. VIII. Chemical composition of the plankton. *Bull. Bingham Oceanogr. Coll.* 15: 315-323. F
- HARRIS, J. E. Diatoms serve modern man. *Nat. Hist.* 65(2): 64-71. F
- HARRIS, K., AND D. E. BRADLEY. Electron microscopy of *Synura* scales. *Discovery* 17(8): 329-332. Au
- HARTMANN, M. Die Sexualität. Zweite Auflage. Stuttgart: Verlag Gustav Fischer. xv, 463 pp. (Ref.: Biebl, R., *Verh. Zool.-Bot. Ges. Wien* 96: 178-179. 1957; Friedrich-Freksa, H., *Z. Naturf.* 11b(6): 368. Je 1956; Geitler, L., *Österr. Bot. Z.* 103(5): 635-636. 5 F 1957; Hämmerling, J., *Naturwissenschaften* 44(5): 124. Mr 1957; Napp-Zinn, K., *Z. Bot.* 45(6): 525-529. 1957; Renner, O., *Z. Bot.* 45(3/4): 317-319. 1957; Thienemann, A., *Arch. Hydrobiol.* 52(3): 453. O 1956; Vazart, J., *Bull. Soc. Bot. France* 104(5/6): 428. 14 O 1957; Widder, F., *Protosplasma* 48(4): 599. 1957)
- . Gesammelte Vorträge und Aufsätze. I. Allgemeine Biologie. Mit einem Vorwort von Joachim Hämmerling. Stuttgart: Verlag Gustav Fischer. 404 pp. (Ref.: Biebl, R., *Verh. Zool.-Bot. Ges. Wien* 96: 178. 1957; Geitler, L., *Österr. Bot. Z.* 103(5): 636. 5 F 1957; Napp-Zinn, K., *Z. Bot.* 45(6): 525-529. 1957; Vazart, J., *Bull. Soc. Bot. France* 104(5/6): 424-426. 14 O 1957) (reprint of earlier works, with one new work: Neue Befunde über Befruchtungsstoffe (Gamone) und ihre theoretische Bedeutung. Pp. 396-404. *Chlamydomonas, Chaetomorpha*)
- . Neue Befunde über Befruchtungsstoffe (Gamone) und ihre theoretische Bedeutung. Nach Untersuchungen von H. Förster und L. Wiese an *Chlamydomonas eugametos* und K. Köhler an *Chaetomorpha aerca*. *Naturwissenschaften* 43(14): 313-317. JI
- IIARTOG, C. den. De verspreiding van *Bostrychia scorpioides* in Nederland. *Natura* 53(5): 71-73. My
- . Deux stations d'*Hildenbrandia rivularis* en Bretagne. *Rev. Alg.u.s.* 2(3): 194-195. D
- IIARTSIHORNE, J. N. A study of mutations of *Chlamydomonas reinhardi* Dangeard. *Abstr. Diss. Univ. Cambridge* 1953/1954: 21-22.
- IIASTIE, G. R. Phytoplankton and hydrography of the Pacific part of the Antarctic Ocean. *Nature* 177(4509): 616-617. 31 Mr
- IIAUG, A. Nyere undersøkelser over tang og tarcarthenes kjemi. *Tidsskr. Kjemi, Bergvesen og Metallurgi* 16(1): 1-8. (incl. *Laminaria, Alaria, Ascophyllum*)
- IIAUG, A., AND A. JENSEN. Seasonal variation in chemical composition of *Laminaria digitata* from different parts of the Norwegian coast. In Braarud & Sørensen, pp. 10-15.
- IIAUG, A., AND B. LARSEN. Carotene content of some Norwegian seaweeds, and observations on the breakdown of carotene in seaweeds and seaweed meal. *Ibid.* 16-22.
- . Carotene breakdown in *Rhodomenia palmata* (L.) Grv. *Acta Chem. Scand.* 10(3): 472-474. 20 Je
- IIAXO, F. T., AND C. O'H EOGHA. (Abstr.) Some constituents of *Porphyridium cruentum*. In Braarud & Sørensen, pp. 23-24.
- IIAYASHI, K., AND N. HARADA. Chemical studies on agar-agar manufacture in Gifu Prefecture. Part 5.

- Res. Bull. Fac. Agr. Gifu Univ. 7: 103-108. N (JE)
- IHAYASHI, K., Y. NAGATA, AND N. HARADA. Chemical studies on agar-agar manufacture in Gifu Prefecture. Part 3. *Ibid.* 6: 141-144. Part 4. *Ibid.* 145-148. Ja (JE)
- IHAYEK, J. M. W., AND R. L. HULBARY. A survey of soil diatoms. Proc. Iowa Acad. Sc. 63: 327-338. 6 D
- HÄYREN, E. En för Finland ny blågrön alg, *Fischerella ambigua* (Näg.) Gom., från korpilahti socken. *Tavastia australis*. Memoranda Soc. Fauna Flora Fenn. 30: 2. 1955
- . Spridda anteckningar om alger och vattenvegetation i Finland, andra samlingen. *Ibid.* 18-20.
- . Eine für Finnland neue blau-grüne Alge, *Leptochaete fonticola* Borzi, aus Luhanka, *Tavastia australis*. *Ibid.* 43-44.
- . Alger huvudsakligen från sandig geolitoral på havsstränder i Sverige och Finland. *Ibid.* 31: 50-55. 1956
- . Über die Algenvegetation des sandigen Geolitorals am Meere in Schweden und in Finnland. Svensk Bot. Tidskr. 50(2): 257-269. 30 Je
- HENDERSON, C., G. G. ROBECK, AND R. C. PALANGE. Effects of low-level radioactivity in the Columbia River. Public Health Rept. 71(1): 6-14. Ja
- HENDEY, N. I. A note on *Navicula maculosa* Donkin. J. R. Micr. Soc. 75(4): 262-265. D (sp. nov.)
- HERBST, F. L'utilisation de thionine et de chlorure de sulfuryle en vue de l'étude des équivalents de noyau chez quelques Cyanophycées. Rev. Alg. n.s. 2(1/2): 132. Mr
- . Etude comparative des résultats obtenus d'une part avec la réaction nucléaire, d'autre part avec la technique des colorants basiques, après hydrolyse préalable, dans le cas de quelques Cyanophycées. *Ibid.* 133.
- HILL, R. The cytochrome components and chlorophyll in relation to the carbon cycle of Calvin. Proc. 3rd Int. Congr. Biochem. 225-227.
- HIRANO, M. [Notes on phytoplankton from Lake Akan.] Acta Phytotax. Geobot. 16: 101-105. (J)
- . [Notes on phytoplankton from the lakes of Hokkaido.] *Ibid.* 170-173. (J)
- . Flora Desmidiarum Japonicarum II. Contrib. Biol. Lab. Kyoto Univ. no. 2. Pp. 57-106, pls. 10-16. (E)
- HIRASE, S., C. ARAKI, AND T. ITO. Constituents of the mucilage of *Gloiopeltis furcata*. Bull. Chem. Soc. Japan 29 (9): 985-987. D
- HIROE, M., AND S. INOJI. Cytological studies on the fucaceous plants, VI. On the meiotic division in the antheridium of *Sargassum tortile* C. Ag. (a preliminary note). Kromosomo 27/28: 942-947. 30 Mr (JE)
- HODGE, A. J., J. D. McLEAN, AND F. V. MERCER. A possible mechanism for the morphogenesis of lamellar systems in plant cells. J. Biophys. Biochem. Cyt. 2(5): 597-607. 25 S (*Nitella*)
- HOFFMANN, C. Untersuchungen über die Remineralisation des Phosphors im Plankton. Kieler Meeresf. 12 (1): 25-36.
- HÖFLER, K. Über Plastiden und Blaszellen der Rotalgen. Publ. Stat. Zool. Napoli 28: 255-265. 15 Au
- . Zellphysiologische Studien an Meeresalgen. Ber. Deutsch. Bot. Ges. 69 (7): 301-308. 29 O
- HÖFLER, K., W. UHL, AND A. DISKUS. Zellphysiologische Versuche und Beobachtungen an Algen der Lagune von Venedig. Boll. Mus. Civ. Stor. Nat. Venezia 9: 63-94.
- . Speicherkonkurrenz im Protoplasten einiger Meeresalgen bei Rhodamin-B-Färbung. Protoplasma 45 (4): 630-632. (*Polysiphonia*, *Bryopsis*, *Cladophora*)
- HÖFLER, K., A. ZIEGLER, AND M. JUHAN. Fluorochromierungsstudien mit Uranin. *Ibid.* 46 (1/4): 322-366. (incl. *Spirogyra*)
- HØIE, J., AND Ø. SANDVIK. Experiments with seaweed meals as supplements to rations for chicks and laying hens. In Braarud & Sørensen, pp. 82-97.
- HOLLAENDER, A. (ed.). Radiation biology. Volume III: Visible and near-visible light. New York: McGraw-Hill Book Co. viii, 765 pp.
- HOLLERBACH, M. M. [In memoriam N. N. Woronikhin.] [1882-1956]



- Bot. Zhurn. 41 (8): 1230-1234. 13 O (portrait)
- HOLMES, R. W. The annual cycle of phytoplankton in the Labrador Sea, 1950-51. Bull. Bingham Oceanogr. Coll. 16 (1): 1-74. Mr
- HOLMES, R. W., AND T. M. WIDRIG. The enumeration and collection of marine phytoplankton. J. Conseil 22 (1): 21-32. O
- HONJO, M. (cf. Ueno *et al.*)
- HOPE, A. B. The electric properties of plant cell membranes. I. The electric capacitance of suspensions of mitochondria, chloroplasts, and *Chlorella* sp. Austral. J. Biol. Sc. 9 (1): 53-66. F
- HORN AN RANTZIEN, H. Morphological terminology relating to female charophyte gametangia and fructifications. Bot. Not. 109 (2): 212-259. 16 JI
- HORTOBAGYI, T. Algenatologie im Seston des Balaton und ihre entwicklungsgeschichtlichen Beziehungen. Acta Biol. Acad. Sc. Hung. 6 (3/4): 203-213. 20 Mr (GRF)
- . Une nouvelle Cyanophycée d'un étang poissonneux: *Marssonella minor* Hortob. n. sp. Rev. Alg. n.s. 2(1/2): 80-84. Mr
- . Algaegyűtések grafikus ábrázolása. Egri Pedagóg. Főisk. Evkőn. 2: 594-602.
- . Adatok a szegedi Fehértó halastavainak mikrovegetációjához. *Ibid.* 603-612.
- HOVASSE, R. Le vacuome animal. In Heilbrunn, L. V., and F. Weber (ed.), *Protoplasmatologia* 3, D (2). 37 pp. (Protista: 28-30)
- HUBER, S. Vitalfärbungsversuche an Hochmooralgen mit leeren und vollen Zellsäften. SitzBer. österr. Akad. Wiss. Math.-Nat. Kl. Abt. I, 164 (10): 909-943. 1955
- . Über den schädigenden Einfluss von Neutralrot auf *Spirogyra*-Zellen. *Protoplasma* 45(3): 491-506.
- HUBER-PESTALOZZI, G. Der Neusiedlersee im österreichischen Burgenland und die Erforschung seines Phytoplanktons. Schweiz. Z. Hydrol. 18(2): 239-244. 1 D
- . Professor Richard Kolkwitz. [1873-1956] *Ibid.* 18(2) 245-253. (portrait)
- HUITIÈME CONGRÈS INTERNA-  
TIONAL DE BOTANIQUE. Paris 1954. Comptes Rendus des Séances et Rapports et Communications déposés lors du Congrès dans la Section 17. 75 pp. 1955
- HULBERT, E. M. The phytoplankton of Great Pond, Massachusetts. Biol. Bull. 110(2): 157-168. Ap
- . Distribution of phosphorus in Great Pond, Massachusetts. J. Mar. Res. 15(3): 181-192. 31 D (incl. relation to phytoplankton)
- HUMM, H. J. Rediscovery of *Anadyomene menziesii*, a deep-water green alga from the Gulf of Mexico. Bull. Mar. Sc. Gulf Carib. 6(4): 346-348. D
- HUNDLEY, J. M., R. B. ING, AND R. W. KRAUSS. Algae as sources of lysine and threonine in supplementing wheat and bread diets. Science 124 (3221): 536. 21 S (*Scenedesmus*, *Chlorella*)
- \*HUSTEDT, F. Kieselalgen (Diatomeen). Stuttgart: Franckh'sche Verlagshandlung. 70 pp. (Ref.: Rieth, A., Z. Bot. 45(5): 425-428. 1957; Utermöhl, Arch. Hydrobiol. 53(4): 605. N 1957)
- . Diatomeen aus dem Lago de Maracibo in Venezuela. In Gessner, F., and V. Vareschi (ed.), Ergebnisse der deutschen limnologischen Venezuela-Expedition 1952, Band I: 93-140. (*Thalassiosira*, *Actinocyclus*, *Chaetoceros*, *Plagiogramma*, *Fragilaria*, *Achnanthes*, *Diploneis*, *Stauroneis*, *Navicula*, *Gyrosigma*, *Amphora*, *Nitzschia*, *Sarirella*, sp. nov.)
- HUTCHINSON, G. E., R. PATRICK, AND E. S. DEEVEY. Sediments of Lake Patzeuaro, Michoacan, Mexico. Bull. Geol. Soc. Am. 67(11): 1491-1504. N (diatoms)
- HUTNER, S. H., S. AARONSON, H. BAKER, AND H. A. NATHAN. (Abstr.) New problems with  $B_{12}$  metabolism in Protozoa. J. Protozool. 3(suppl.): 5-6. Au (incl. *Ochromonas*)
- HUTNER, S. H., M. K. BACH, AND G. I. M. ROSS. A sugar-containing basal medium for vitamin  $B_{12}$ -assay with *Englena*; application to body fluids. *Ibid.* 3(3): 101-112. Au
- HUTNER, S. H., L. PROVASOLI, J. J. A. McLAUGHLIN, AND I. J. PINTNER. Biochemical geography:

- some aspects of recent vitamin research. Geogr. Rev. 46(3): 404-407.
- JI (vitamin research in relation to plankton)
- HUTTON, R. F. An annotated bibliography of red tides occurring in the marine waters of Florida. Q. J. Fla. Acad. Sc. 19(2/3): 123-146. 27 N
- HUVE, II. Contribution à l'étude des fonds à *Lithothamnium* (?) *solutum* Foslie (= *Lithophyllum solutum* (Foslie) Lemoine) de la région de Marseille. Rec. Trav. Stat. Mar. Endoume 18: 105-133.
- HUVE, P. Sur la réinstallation d'un "trottoir à *Tenarea*" en Méditerranée occidentale. C. R. Acad. Sc. 243(25): 2157-2158. 17 D
- ICHIKI, M. On the marine algae of the Meshima Island, Nagasaki Pref. in Japan. J. Jap. Bot. 31(3): 93-96. Mr (J)
- ICHIKURA, S. On the standing crop and productive structure of phytoplankton community in some lakes of central Japan. Bot. Mag. Tokyo 69 (811): 7-16. Ja
- . On the ecological meaning of transparency for the production of matter in phytoplankton community of lake. *Ibid.* 69(815): 219-226. My
- ILLIES, J. Sieben Jahre limnologischer Forschung an Fulda und Werra. Mitt. Max-Planck-Ges. 1956(3): 157-166. Je (slight reference to phytoplankton)
- IMAI, K. (cf. Ueno *et al.*)
- \*INGLE, R. M., AND D. P. DE SYLVA. The red tide. Florida State Board Conserv., Educ. Ser. no. 1. 31 pp.
- INOUE, S. [Dr. Hämmerling visits the Marine Experiment Station, Okayama University, at Tamano.] Bull. Jap. Soc. Phyce. 4(2): 65-66. S (J)
- IRENEE MARIE, Frère. Les *Euastrum* du lac Saint-Jean et du Parc des Laurentides de la Province de Québec. Rev. Alg. n.s. 2(1/2): 112-121. Mr (sp. nov.)
- . Les *Cosmarium* de la région des Trois-Rivières. Hydrobiologia 8 (1/2): 79-154. 30 Au (sp. nov.)
- IRVINE, D. E. G. Notes on British species of the genus *Sphaecelaria* Lyngb. Trans. Proc. Bot. Soc. Edinburgh 37(1): 24-45.
- ISAAC, W. E. The ecology of *Gracilaria confervoides* (L.) Grev. in South Africa with special reference to its ecology in the Saldanha-Langebaan Lagoon. In Braarud & Sørensen, pp. 173-185.
- . (Abstr.) Some characteristics of the South African seaweed flora with special reference to siphonous Chlorophyceae. Phyc. Bull. 4: 9-11. My
- . Marine algae of Inhaca Island and of the Inhaca Peninsula, I. J. S. Afr. Bot. 22(4): 161-193. O
- ISOKAWA, S. An alga growing on the teeth and their surrounding tissues of fish. Zool. Mag. 65: 319-321. Au (JE) (Ectocarpales)
- ITO, S., II. NAGASHIMA, AND T. MATSUMOTO. [On the sterol of *Gelidium amansii* Lamourous and *Pterocladia tenuis* Okamura.] J. Chem. Soc. Japan (Pure Chem. Sect.) 77 (7): 1119-1121. Ji (J)
- IVANOV, A. I. [On the use of aerial methods in investigating the phytoplankton of the estuary districts in the north-western part of the Black Sea.] Bot. Zhurn. 41(11): 1617-1619. 3 D (R)
- IYENGAR, M. O. P. Felix Eugen Fritsch, 1879-1954. J. Ind. Bot. Soc. 35(4): 522-532. (portrait, bibliography)
- IYENGAR, M. O. P., AND M. S. BALAKRISHNAN. On sexual reproduction in a new species of *Golenkinia*. *Ibid.* 371-373.
- IYENGAR, M. O. P., AND M. T. PHILIPPOSE. *Glococtilopsis planctonica* gen. et sp. nov., a new member of the Ulotrichaceae. *Ibid.* 365-370.
- JACOBI, G. Vergleichende Untersuchungen über den Stickstoffumsatz bei der Rezeptakelbildung bei *Fucus vesiculosus*. Kieler Meeresf. 12(1): 65-71.
- JAFFE, I. Effect of polarized light on polarity of *Fucus*. Science 123 (3207): 1081-1082. 15 Je
- JANE, F. W. Professor Felix Eugen Fritsch. Proc. Linn. Soc. London 166 (1/2): 40-42. F
- JÄRNEFELT, H. Materialien zur Hydrobiologie des Sees Tuusulanjärvi. Acta Soc. Fauna Flora Fenn. 71(5). 38 pp.
- . Zur Limnologie einiger Gewässer Finnlands. XVI. Mit besonderer Berücksichtigung des Planktons.

- Ann. Zool. Soc. Vanamo 17(1). 201 pp. 1 My (*Scenedesmus*, *Bicosocca*, sp. nov.) XVII. *Ibid.* 18(2). 61 pp. 1 N
- JAROSCH, R. Plasmaströmung und Chloroplastenrotation bei Characem. *Phyton* [Horn] 6(2): 87-108. My
- . Ablösung von Zellwandbestandteilen bei schnell wachsenden *Nitella*-Internodialzellen. *Protoplasma* 47(3/4): 534-535.
- JAVORNICKY, P. Probleme der quantitativen Bearbeitung des Nannoplanktons mittels der Planktonkammer und Zentrifugiermethoden. *Biologia* [Bratislava] 11(10): 605-612. (CzRG) (*Trachelomonas*, *Asterionella*)
- JENSEN, A. Component sugars of some common brown algae. Norsk Inst. Tang- og Tareforskning Rept. no. 9. 8 pp. (*Laminariales*, *Fucales*)
- . Preliminary investigation of the carbohydrates of *Laminaria digitata* and *Fucus serratus*. *Ibid.* no. 10. 11 pp.
- JENSEN, A., AND A. HAUG. Geographical and seasonal variation in the chemical composition of *Laminaria hyperborea* and *Laminaria digitata* from the Norwegian coast. *Ibid.* no. 14. 8 pp.
- JENSEN, A., AND I. SUNDE. On the quantitative determination of alginic acid. In Braarud & Sørensen, pp. 125-130.
- JOHNSON, L. P. Observations on *Euglena fracta* sp. nov., with special reference to the locomotor apparatus. *Trans. Am. Micr. Soc.* 75(3): 271-281. J1
- JOHNSON, T. W., Jr. (Abstr.) *Thraustochytrium profiferum* Sparrow, a marine phycomycete on *Bryopsis plumosa* (Hudson) C. Agardh. *Ass. Southeast. Biol. Bull.* 3(1):11. Mr
- JOHNSON, W. H. Nutrition of protozoa. *Ann. Rev. Microbiol.* 10: 193-212. (phytoflagellates: 203-205)
- JOLIOT, P. Dispositif ampérométrique de mesure de la photosynthèse. *C. R. Acad. Sc.* 243(7): 677-680. 13 Au (*Chlorocella*)
- JOLY, A. B. Additions to the marine flora of Brazil. *I. Bol. Bot. Univ. São Paulo* no. 13: 7-15.
- . The sexual female plants of *Griffithsia tenuis* C. Agardh. *Ibid.* 25-31.
- JONES, R. F. On the chemical composition of the brown alga, *Himantalia elongata* (L.) S. F. Gray. *Biol. Bull.* 110(2): 169-178. Ap
- JONES, W. E. Effect of spore coalescence on the early development of *Gracilaria verrucosa* (Hudson) Papenfuss. *Nature* 178(4530): 426-427. 25 Au
- JONSSON, S. Sur la structure des pyrénoides chez les principaux types de Cladophorales marines. *C. R. Acad. Sc.* 242(13): 1758-1761. 26 Mr
- JØRGENSEN, E. G. Growth inhibiting substances formed by algae. *Physiol. Pl.* 9(4): 712-726. (*Nitzschia*, *Asterionella*, *Scenedesmus*, *Chlorocella*)
- JULIN, E., AND S. PEKKARI. Coastal waters in the region of Haparanda. *Svensk Bot. Tidskr.* 50(2): 348-360. 30 Je
- JURILJ, A. La phylogénèse spécifique d'un groupe de Diatomées—Campylodiscoideae—et sa cause. *Hydrobiologia* 8(1/2): 1-15. 30 Au
- JURIS, S. Algen des Torfmoores Bór (I. Orava, Slowakei). *Biologia* [Bratislava] 10(6): 700-718. 1955 (CzRG)
- . Über das Vorkommen der Alge *Diceras phaeocolus* Fott (1936) in der Hohen Tatra. *Acta Fac. Rer. Nat. Univ. Comenianae, Bot.* 1(8/9): 427-432. (CzRG)
- KALAHNE, M., A. WARTENBERG, Jr., AND R. BAUCH. Biologisch-ökologische Studien an der Gattung *Fucus*. III. Die rhythmische Bildung der Geschlechtszellen beim Blasen-tang. *Wiss. Z. Univ. Greifswald, Math.-Nat.* 5(5/6): 333-342.
- KAMIYA, N., AND K. KURODA. Artificial modification of the osmotic pressure of the plant cell. *Protoplasma* 46(1/4): 423-436. (*Nitella*)
- . Velocity distribution of the protoplasmic streaming in *Nitella* cells. *Bot. Mag. Tokyo* 69(822): 544-554. D
- KAMIYA, N., AND M. TAZAWA. Studies on water permeability of a single plant cell by means of transeellular osmosis. *Protoplasma* 46(1/4): 394-422. (*Nitella*)

- KAMIYA, T. A report on the reproduction of *Makinoella tosacensis* Okada. J. Jap. Bot. 31(9): 257-261. S (JE)
- KAMPFNER, E. Das Kalkskelett von *Coccolithus Huxleyi* (Lohm.) Kpt. und *Gephyrocapsa oceanica* Kpt. (Coccolithineae). Arch. Protistenk. 101(2): 171-202. 30 Ap
- . Morphologische Betrachtungen über Skelettelemente der Coccolithineen. Österr. Bot. Z. 103(1): 142-163. 22 Mr
- KANDLER, O. (Abstr.) Abhängigkeit der Ammonium-Aufnahme durch *Chlorella* von Kohlenhydratversorgung und Belichtung. Angew. Chem. 68(4): 160. 21 F
- . (Abstr.) A cyanide insensitive light phosphorylation in *Chlorella*. Pl. Physiol. 31(suppl.) xvii-xviii. JI
- KANDLER, O., AND M. GIBBS. Asymmetric distribution of  $C^{14}$  in the glucose phosphates formed during photosynthesis. *Ibid.* 31(5): 411-412. S (*Chlorella*)
- KANDLER, O., AND F. SCHÖTZ. Untersuchungen über die photooxydative Farbstoffzerstörung und Stoffwechselhemmung bei *Chlorellamutanten* und panaschierten Oenotheren. Z. Naturf. 11b(12): 708-718. D
- KANETSUNA, Y. Studies on desmidflora from the paddy-fields of Kyoto City and vicinity. Bull. Jap. Soc. Phyce. 4(1): 1-8. My (JE)
- KAPLAN, I. R. Evidence of microbiological activity in some of the geothermal regions of New Zealand. N. Z. J. Sc. Tech., ser. B, 37(6): 639-662. My
- KASAKI, H. On the newly found genus *Nitellopsis* from Japan. (Notes on the Charophyta-flora in Japan—3). J. Jap. Bot. 31(4): 97-101. Ap (JE)
- KASHIMURA, T. Distribution of stone-worts in Lake Towada in its relation to the light factor. Ecol. Rev. 14(2): 149-153. Mr (*Characeae*)
- KASHIWADA, K., D. KAKIMOTO, AND A. KANAZAWA. Studies on vitamin B<sub>12</sub> in sea water. I. On the assay of vitamin B<sub>12</sub> in sea water. Mem. Fac. Fish. Kagoshima Univ. 5: 146-152. D (*Euglena* assay) (JE)
- KATAYAMA, T. Chemical studies on volatile constituents of sea-weeds. VII. Flavour and other characteristics of *Porphyra tenera* K. Bull. Soc. Sc. Fish. 22(4): 244-247. X. Antibacterial action of *Enteromorpha* sp. *Ibid.* 248-250. XI. Anthelmintic action of volatile compounds of sea-weeds. *Ibid.* 251-252. XII. Effect on muscle contraction of earthworms. *Ibid.* 253-256. Au (JE)
- KAWABATA, S. On the structure of the frond and the reproductive organ of *Cyrtymenia sparsa* Okamura. Bull. Jap. Soc. Phyce. 4(1): 8-13. My (JE)
- KAWAMURA, T. Limnological investigations of the Tsugaru, Juniko Lake group, Aomori Prefecture, northern Japan, with special reference to the plankton communities. Mem. Fac. Fish. Hokkaido Univ. 4(1): 1-89.
- KAWINSKI, H. *Bangia atropurpurea* in Ahralt. Decheniana 108(1): 167. My 1955
- KE, B., AND K. A. CLENDENNING. Properties of chloroplast dispersions in the presence of detergents. Biochim. Biophys. Acta 19(1): 74-83. Ja (*Nostic*, *Chlorella*, *Oscillatoria*, *Chondrus*)
- KESSLER, E. Reduction of nitrite with molecular hydrogen in algae containing hydrogenase. Arch. Biochem. Biophys. 62(1): 241-242. My (*Ankistrodesmus*, *Scenedesmus*, *Chlorella*)
- KEYSER, L. de. Alginyl stearate. In Braarud & Sørensen, pp. 98-102.
- KIERMAYER, O. Fluorochromierung pflanzlicher Zellen mit Fluoreszenz X (reduziertem Neutralrot). Protoplastica 46(1/4): 437-444. (incl. desmids)
- KILLAM, A., AND J. MYERS. A special effect of light on the growth of *Chlorella vulgaris*. Am. J. Bot. 43(8): 569-572. 23 O
- KIMATA, S. (cf. Ueno *et al.*)
- KINGSBURY, J. M. On pigment changes and growth in the blue-green alga, *Plectonocena nostocorum* Bornet ex Gomont. Biol. Bull. 110(3): 310-319. Je
- KINZEL, H. Untersuchungen über Bau und Chemismus der Zellwände von *Antithamnion cruciatum* (Ag.) Näg.

- Protoplasma 46(1/4): 445-474.
- KIRSCHNINCK, H. Über Florideenstärken (Floridean starch) und ihre Abwandlungen zu agarfähigen Produkten, Seifen-Ole-Fette-Wachse 82(2): 39-41. 18 Ja
- . Algenmehlhaltiges Brot ("A-Brot"). *Ibid.* 82(9): 245-246. 25 Ap
- . Futtermittel vom Meeresgrund. Ein Beitrag zur Frage der Algenmehle in der Tierernährung. Monatsh. Futtermittel-Wirtschaft 39(9): [2 pp. as reprint] S
- \*———. Florideenstärken, II. Stärke 8: 73-78. III. *Ibid.* 245-246.
- . Beitrag zur Frage Algenmehle (Seaweed-Meal) in der Ernährung. *Ibid.* 8(8): 203-208.
- KISHIMOTO, A., AND H. FUJITA. Studies on physico-chemical properties of marine products and related substances. VII. Swelling of sodium alginate gels in concentrated salt solutions. Bull. Jap. Soc. Se. Fish. 22(6): 348-353. O
- KISS, I. Das Entstehen von Zellen aus Plasmateilchen pflanzlicher Mikroorganismen. Acta Biol. Acad. Se. Hung. 6(3/4): 231-255. 20 Mr (*Chlamydomonas*)
- KITCHING, J. A. Contractile vacuoles of protozoa. In Heilbrunn, L. V., and F. Weber (ed.), Protoplasmatologia 3, D(3a). 45 pp.
- . Food vacuoles. *Ibid.* 3, D(3b). 54 pp.
- KITOU, M., AND O. ASAKA. Seasonal variation of phytoplankton at the Ocean Weather Station "X" (1950-1952)—1. J. Oceanogr. Soc. Japan 12(4): 125-128. D (JE)
- \*KLINGMAN, A. L., A. C. HAWTREY, J. R. NUNN, AND M. M. von HOLDT. (Abstr.) The polysaccharides of some red seaweeds. S. Afr. Industr. Chem. 10: 175. Au
- KLINKHAMMER, F. Experimente mit pflanzlichen Mikroorganismen. I. Die Reinkultur von Algen. Mikrokosmos 45: 231-236.
- KNOCH, M., AND H. KÖNIG. Strukturlose Platinabdrucke biologischer Objekte. Z. Wiss. Mikr. 63(2): 121-128. S (incl. Cyanophyceae)
- \*KOBAYASHI, Y. On a *Prasiola* from Antarctica. Bull. Natl. Se. Mus. 3: 52-55. Mr (JE)
- \*KOGAN, Sh. I. [Vegetation of the lakes of Western Uzbeki.] Izv. Akad. Nauk Turkmenskoi SSR 3: 62-65.
- \*———. Species algarum curiosae Turkmeniae. Bot. Mater., Otd. Spor. Rast., Bot. Inst. Akad. Nauk SSSR 11: 33-35. 1 Ja (*Binuclearia*, sp. nov.)
- KÖHLER, K. Entwicklungsgeschichte, Geschlechtsbestimmung und Befruchtung bei *Chaetomorpha*. Arch. Protistenk. 101(3): 223-268. 25 O
- KOHN, A. J., AND P. HEJFRICH. (Abstr.) Organic productivity of a Hawaiian coral reef. Proc. Haw. Acad. Se. 31: 20.
- KOJIMA, Y. Studies on the preparation and purification of alginic acid by electrodialysis, I. Bull. Jap. Soc. Se. Fish. 21(12): 1253-1256. II. *Ibid.* 1257-1260. Apr. III. *Ibid.* 22(2): 104-107. IV. *Ibid.* 108-111. Je. V. *Ibid.* 22(3): 180-183. VI. *Ibid.* 184-190. VII. *Ibid.* 191-194. J1 (JE)
- KOK, B. On the inhibition of photosynthesis by intense light. Biochim. Biophys. Acta 21(2): 234-244. Au (*Chlorella*)
- . Photosynthesis in flashing light. *Ibid.* 245-258. (*Chlorella*)
- . On the reversible absorption change at 705 m $\mu$  in photosynthetic organisms. *Ibid.* 22(2): 399-401. N (*Ulva*, *Chlorella*, *Nitzschia*, *Porphyra*, *Nostoc*)
- KOK, B., AND J. A. BUSINGER. Kinetics of photosynthesis and photo-inhibition. Nature 177(4499): 135-136. 21 Ja (*Chlorella*)
- KOK, B., AND C. J. P. SPRUIT. High initial rates of gas-exchange in respiration and photosynthesis of *Chlorella*. Biochim. Biophys. Acta 19(2): 212-223. F
- KOL, E. A collection of algal cultures in the Hungarian Natural History Museum. Ann. Hist.-Nat. Mus. Natl. Hung. n.s. 7: 261-262.
- . Sur la microvégétation de la neige des montagnes de la Bulgarie. I. (Mont Pirin et Mont Rila). Izv. Bot. Inst. Bulg. Akad. Nauk. 5: 377-385. 1 N
- KOLBE, R. W. Zur Phylogenie des Raphe-Organs der Diatomeen: *Euno-*

- tia* (*Amphicampa*) *eruca* Ehr. Bot. Not. 109(1): 91-97. 26 Mr
- Zur Deutung und Answertung elektronenmikroskopischer Aufnahmen in der Diatomeenkunde. *Ibid.* 109(3): 368-373. 5 O
- KOMAREK, J. New homogonal blue-green algae. *Preslia* 28(4): 369-379. (*Seytonema*, *Microchaete*, *Lyngbya*, sp. nov.) (CzE)
- Some interesting blue-green algae from Bulgarian coast of Black Sea near Burgas. *Universitas Carolina, Biol.* 2(1): 91-118. (*Synechococcus*, *Pseudocapsa*, *Oscillatoria*, sp. nov.) (RCzE)
- KONDRAT'JEVA, N. V. [Blue-green algae of certain swamps of the woodland.] *Ukrain. Bot. Zhurn.* 13(2): 89-98. 8 Je (UR)
- KORNMANN, P. Über die Entwicklung einer *Ectocarpus confervoides*-Form. *Pubbl. Staz. Zool. Napoli* 28: 32-43. 15 Au
- Zur Morphologie und Entwicklung von *Percursaria pereursa*. *Helgoländer Wiss. Meeresunt.* 5(3): 259-272. 15 S
- KOSINSKAJA, E. K. [In regard to the flora of fresh-water algae of the Novosibirsk islands.] *Trudy, Spor. Rast., Bot. Inst. Akad. Nauk SSSR* 10: 5-31. (R)
- \*KRASNOVSKII, A. A., E. A. NESTEROVSKAIA, AND A. B. GOLDENBERG. [Spectroscopic studies of the composition of chlorophyll in the red alga *Phyllophora*.] *Biofizika* 1: 328-333. (R)
- KRAUSS, R. W. Photosynthesis in the algae. *Industr. Eng. Chem.* 48(9): 1449-1455. S (discussion by C. M. Palmer, 1456-1457; W. J. Oswald and H. B. Gotaas, 1457-1458)
- KRAUSS, R. W., AND R. A. GALLOWAY. (Abstr.) Biological action of polymyxin B. *Science* 124(3228): 939. 9 N (incl. *Secenedesmus*, *Chlorella*)
- KRIEGER, W., AND P. BOURRELLY. Desmidiacées des Andes du Venezuela. In Gessner, F., and V. Varesechi (ed.), *Ergebnisse der deutschen limnologischen Venezuela-Expedition 1952*, Band I: 141-195. (*Euastrum*, *Cosmarium*, *Staurastrum*, sp. nov.)
- KUBICEK, F. Zur Hydrobiologie der Bystrická-Talsperre bei Vsetín (Mähren). *Acta Rer. Nat. Ostrav.* 17(1): 59-78. (CzGs)
- KUCKUCK, P. *Ectocarpaceen-Studien IV. Herponema, Kützingerella* nov. gen., *Farlowiella* nov. gen. Herausgegeben von Peter Kornmann. *Helgoländer Wiss. Meeresunt.* 5(3): 292-325. 15 S
- KUFFERATH, H. Les algues et protistes des mares de Chertal en 1952. *Bull. Inst. R. Se. Nat. Belg.* 32(34). 39 pp. J1 (*Scourfieldia*, *Characiopsis*, *Percnema*, sp. nov.)
- Idées en faveur de la réalisation d'iconothèques d'algues et de protistes. *Bull. Soc. Bot. France* 103(5/6): 292-297. 29 S
- KUHN, H. Zur Biologie des Fuschlsees. *Ber. Geobot. ForschInst. Rübcl* 1955: 98-102.
- KÜNZENBACH, R. Über die Algenvegetation der Ostsee und der Bodengewässer um Hiddensee. *Wiss. Z. Univ. Greifswald, Math.-Nat.* 5(5/6): 373-388.
- KURITA, A. (cf. Ueno *et al.*)
- KURODA, K. Recherches sur la relation entre la pression osmotique de la cellule et le courant protoplasmique. *Cytologia* 21(2): 200-207. Je (*Nitella*)
- KURODA, K., AND H. OKESAKU. Limnological observations and bottom soil analyses of lakes producing "Ogonori" (*Gracilaria verrucosa* (Huds.) Grv.). *Bull. Hokkaido Reg. Fish. Lab.* 14: 79-88. S (JE)
- KUROGI, M. [Life-history of *Porphyra*, especially on so-called "summer plantlets." (Life-history of *P. tenera* Kjellm. *round type*.) (Preliminary account.)] *Bull. Jap. Soc. Phyce.* 4(1): 13-18. My (J)
- KÜSTER, E. Die Pflanzenzelle. Dritte Auflage, unter Mitwirkung von Dr. Karl Höfler. Jena: Gustav Fischer Verlag, xxii, 986 pp. (Ref.: Biebl, R., *Verh. Zool.-Bot. Ges. Wien* 96: 169-170. 1957; Weber, F., *Protoplasma* 48(3): 422-423. 1957)
- KÜSTER-WINKELMANN, G. Ernst Küster [1874-1953]. Erinnerungen eines Botanikers. Giessen: Brühl-schen Verlag. 456 pp.
- \*KUZNETSOV, S. I. Application of

- radioactive isotopes to the study of processes of photosynthesis and chemosynthesis in lakes. Proc. Int. Conf. Peaceful Uses Atomic Energy 12: 368-376.
- . [Experiment in the application of green and mineral fertilizer to fish ponds in "Ust-Koisug," Rostov oblast.] Trudy Vses. Hidrobiol. Obsheh. 7: 36-51. (*Scenedesmus*; phytoplankton) (R)
- KYLIN, H. Die Gattungen der Rhodophyceen. Lund, Sweden: C. W. K. Gleerups Förlag. xv, 673 pp. (Polyideaceae, fam. nov.; *Petrovanella*, *Neoardissonia*, *Beckerella*, *Neofeschougia*, *Diapse*, *Falklandiella*, *Georgiella*, *Neoptilota*, *Rhodoptilum*, *Diplocladia*, *Echinolhammion*, *Boergereniella*, *Leptosiphonia*, *Rhodolophia*, *Thaumatella*, *Levringiella*, *Euzonia*, *Echinosporangium*, gen. nov.) (Ref.: Feldmann, J., Rev. Gén. Bot. 64(762/763): 479-481. An/S 1957; Margalef, R., Coll. Bot. 5(1): 290-291. 1956)
- LABOREL, J. Premières notes de plongée sur les peuplements marines en eaux grecques. C. R. Acad. Sc. 242 (4): 565-567. 23 Ja
- LACEY, A. J., AND B. MOSS. (Abstr.) The autecology of *Halidrys siliquosa* (L.) Lyngb. Phyc. Bull. 4: 14. My
- LACKEY, J. B. Known geographic range of *Gymnodinium brevis* Davis. Q. J. Florida Acad. Sc. 19(1): 71. 27 J1
- LACKEY, J. B., W. T. CALAWAY, AND G. B. MORGAN. Biological purification of citrus wastes. Sewage Ind. Wastes 28(4): 538-546. Ap
- LACKEY, J. B., AND E. R. HUPP. Plankton populations in Indiana's White River. J. Am. Water Works Ass. 48(8): 1024-1036. Au
- LAEVASTU, T., AND T. G. THOMPSON. The determination and occurrence of nickel in sea water, marine organisms, and sediments. J. Conseil 21(2): 125-143. Ap
- LAMI, R. Emploi des filtres à bandes multiples en microscopie algologique. Bull. Lab. Marit. Dinard 42: 91. O (note)
- LAMI, R., AND M. L. PRIOU. Sur la zone émergente de *Bifurcaria tuberculata* dans la région malouine et l'apparition de *Bornetia secundiflora*. *Ibid.* 89. (note)
- LANG, A. Entwicklungsphysiologie. Fortschr. Bot. 18: 289-328.
- LARSEN, B., AND A. HAUG. Carotene isomers in some red algae. Acta Chem. Scand. 10(3): 470-472. 20 Je
- LATIMER, P. Selective scattering of light by pigmented algal cells. Carnegie Inst. Wash. Year Book 55: 251-252. 14 D (*Chlorella*)
- . Fluorescence and scattering of light by plant pigments. Diss. Abstr. 16(9): 1594-1595. S (Univ. Illinois)
- LATIMER, P., T. T. BANNISTER, AND E. RABINOWITZ. Quantum yields of fluorescence of plant pigments. Science 124(3222): 585-586. 28 S (*Chlorella*, *Navicula*, *Synechocystis*, *Porphyridium*)
- LATIMER, P., AND E. RABINOWITZ. Selective scattering of light by pigment-containing plant cells. J. Chem. Physics 24(2): 480. F (*Chlorella*)
- LAWSON, G. W. Rocky shore zonation on the Gold Coast. J. Ecol. 44(1): 153-170. Ja
- LEAGUE, E. A., AND V. A. GREULACH. Effects of daylength and temperature on the reproduction of *Vaucheria sessilis*. Bot. Gaz. 117(1): 45-51. 2 Ap
- LEAKE, D. V. Algae of the Ozark Mountains. Proc. Okla. Acad. Sc. 35: 6-9.
- LEBEDEV, S. I., AND I. A. YARTSEVA. [On the polysaccharides of the red sea-weed *Phyllophora nervosa*.] Dokl. Akad. Nauk SSSR 109(1): 160-163. 2 Au (R; cf. Chem. Abstr. 51: 1390)
- \*LEENTVAAR, P. [A survey of planktons in the Dinkel and some tributary brooks.] Levende Nat. 59: 233-238. O (Du)
- LEEPER, G. W. Diatom skeletons and sponge spicules in soils. Austral. J. Sc. 18(2): 59-60. O 1955
- LEFFEVRE, M., AND J. WURZ-ARLET (collaborators). Commission d'Etudes du lac d'Eguzon. Ann. Stat. Centr. Hydrobiol. Appl. 6:3-320. (phytoplankton: 87-125)
- LEHTORANTA, L. Über den Kationen- und Chlorgehalt des Zellsaftes, ins-

- besondere bei Submersen. *Ann. Bot. Soc. Vanamo* 29(1): vii, 164 pp. 15 My (incl. Characeae: 97-102)
- LENK, I. Vergleichende Permeabilitätsstudien an Süßwasseralgen (Zygnemataceen und einigen Chlorophyceen). *SitzBer. Österr. Akad. Wiss. Math.-Nat. Kl. Abt. I*, 165-(2/3): 173-279.
- LEPPER, R., Jr. The plant centrosome and the centrosome-blepharoplast homology. *Bot. Rev.* 22(6): 375-417. Je
- LEVRING, T., AND G. R. FISH. The penetration of light in some tropical East African waters. *Oikos* 7(1): 98-109. (photosynthesis; experiments with *Anabaena* and *Chlorella*)
- LEWIN, R. A. Control of sexual activity in *Chlamydomonas* by light. *J. Gen. Microbiol.* 15(1): 170-185. Au
- . Problems of sex in unicellular algae. *Am. Nat.* 90(854): 331-332. S/O
- . The birds and the bees, and *Chlamydomonas*. *Yale Sc. Mag.* 31(3): 30-36. D
- . Extracellular polysaccharides of green algae. *Can. J. Microbiol.* 2(7): 665-672. 21 D (*Chlamydomonas*, *Chlorosarcina*, *Gloeoecystis*)
- LEYON, H. The structure of chloroplasts. *Svensk Kem. Tidskr.* 68(2): 70-88. (review)
- LIJOTSKY, O., AND P. MARVAN. [Julius Bily-Sechzigjähriger.] *Preslia* 28(1): 102-103. (ten diatomological works cited) (Cz)
- LIAAEN, S., AND N. A. SØRENSEN. Postmortal changes in the carotenoids of *Fucus vesiculosus*. In Braarud & Sørensen, pp. 25-32.
- LIND, E. M. Some notes on marine algae of the Kenya coast. *Phyc. Bull.* 4: 25-26. My
- LINDBERG, B. Low-molecular weight carbohydrates in brown and red algae. In Braarud & Sørensen, pp. 33-38.
- LINGAPPA, B. T. *Synchytrium borrieriae*, an endophytic alga. *Mycologia* 48(3): 427-432. 8 Je
- LINKS, J., A. VERLOOP, AND E. HAVINGA. The carotenoids, steroids and higher fatty acids of *Polytoma uvella* with a remark on the stimulation of carotenogenesis by thiamin. *C. R. Sme Congr. Int. Bot.* 17: 35-36. 1955
- LINSKENS, H. Physiologie der Fortpflanzung und Sexualität. *Fortschr. Bot.* 18: 329-346.
- LÖTSCHERT, W. Temperatur- und pH-Studien in salvadorensischen Solfatoren und Thermen. *Ber. Deutsch. Bot. Ges.* 69(1): 21-31. 27 F (incl. Cyanophyceae)
- LUND, J.W.G. Species of *Characiopsis*, *Pseudostaurastrum* and *Scenedesmus* new to Britain. *Naturalist* no. 856: 13-16. 2 Ja
- . On certain planktonic palmelloid green algae. *J. Linn. Soc. London, Bot.* 55(361): 593-613. 14 S (*Radiococcus*, sp. nov.)
- LUND, S. *Fucus inflatus* M. Vahl i Malmös Havn. *Bot. Not.* 109(3): 373-375. 5 O (Sw)
- LUNDIN, H., AND L. E. ERICSON. On the occurrence of vitamins in marine algae. In Braarud & Sørensen, pp. 39-43.
- MABILLE, J. Observations sur une fleur d'eau à Cyanophycées. *Rev. Alg. n.s.* 2(1/2): 72-79. Mr
- MACDONALD, M. B., AND A. T. HOTCHKISS. An estipulodic form of *Chara australis* R. Br. (= *Protophara australis* Woms. and Ophel). *Proc. Linn. Soc. N.S.W.* 80(3): 274-284. 24 Ap
- MACFARLANE, C. I. Irish moss in the Maritime Provinces. Halifax: Nova Scotia Res. Found. 20 pp.
- . Studies in seaweed populations of economic importance in Digby Neck area, Nova Scotia. In Braarud & Sørensen, pp. 186-191.
- MAGNE, F. La syncope prophasique de la méiose des Floridées. *C. R. Sme Congr. Int. Bot.* 17: 48-50. 1955
- . Etudes sur l'îlot du Grand Congloué (Archipel de Riou, près Marseille). III. La végétation marine du Grand Congloué. *Ann. Inst. Océanogr.* 32: 163-184.
- MAIZEL, J. V., AND A. A. BENSON. (Abstr.) Function of phosphorylcholine in plants. *Pl. Physiol.* 31-(suppl.): xxiv. J1 (incl. *Scenedesmus*)