

THE PHYCOLOGICAL SOCIETY OF AMERICA

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

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Number 29

P. C. SILVA, Editor and Secretary

Members as of January 1, 1957*

(With address, occupation, and interests)

Individuals (257)

- ABBOTT, Mr. Charles C. R. F. D. No. 1, West Chester, Pa. (Registered seed technologist). FW (ecol. morph. tax.)
- ABBOTT, Dr. Isabella A. 1010 Morse Dr., Pacific Grove, Calif. (Independent investigator, Hopkins Marine Station) M (morph. tax. Rhodophyta) XHR
- ABBOTT, Dr. Robinson S. Instructor in Botany, Smith College, Northampton, Mass. FW, M (ecol. morph. tax. algae as food for mosquitoes) XR
- ALEEM, Dr. Anwar Abdel. Oceanography Dept., Faculty of Science, University of Alexandria, Alexandria, Egypt. M (cult. ecol. econ. phys. tax. plankton, water supplies and contamination, fisheries and fish food) XHR
- ALGEUS, Fil. Dr. Sven. H. A. Läröverket, Västerås, Sweden. Phys. (hormones, nitrogen nutrition). XR
- ALLEN, Miss M(arjory) Ann. Dept. of Botany, Indiana Univ., Bloomington, Ind. GR FW (cult. cyt. gen. morph. phys. *Spirogyra*) XCR
- ALLEN, Dr. Mary Belle. Asst. Research Biochemist and Lecturer in Physiology, Dept. of Soils and Plant Nutrition, Univ. of California, Berkeley 4, Calif. M and FW plankton (biochem. phys. cult. ecol.) XCR
- ALMESTRAND, Dr. Asta. Botanical Laboratory, Lund Univ., Lund, Sweden. Tax. diatoms, water supplies and contamination, XR
- ALMODOVAR, Mr. Luis R. Dept. of Biological Sciences, Florida State Univ., Tallahassee, Fla. GR FW, M (ecol. morph. tax. pollution, Cyanophyta) XHR
- ANDERSON, Mr. Robert G. Dept. of Botany, Univ. of Nebraska, Lincoln 8, Nebr. GR FW (cult. morph. phys.) XCR
- APIKIAN, Mr. Gir. 7 Rond-Point Descas, Casablanca, Maroc. M (econ.)
- ARCE, Dr. Gina. Instructor in Biology, Vanderbilt Univ., Nashville 5, Tenn. FW, M (cult. econ. morph. tax. soil algae of Cuba) XCR
- BAARDSETH, Dr. Egil. Institutt for Tang- og Tare-forskning, NTH, Trondheim, Norway. M (cyt. morph. phys. ecol. econ.) XR
- BADDAMS, Greta. New England University College, Armidale, N. S. W., Australia. FW (desmids) XHR
- BAKER, Mrs. Kathleen M. Drew, D.Se. Dept. of Botany, Univ. of Manchester, Manchester 13, England. FW, M (Rhodophyta, cyt. of Bangiales, *Rhodochorton* and *Batrachospermum*) XHR
- BAUMEISTER, Mr. Willy. Simbach/Inn-Erlach, Bayern, Germany. Dinophyceae, esp. Dinococcales. XCR

* Abbreviations: GR, graduate student; I, independent investigator; FW, interested in freshwater algae; M, interested in marine algae; X, wishes to exchange cultures (C), herbarium specimens (H), plankton samples (P), reprints (R); biochem., biochemistry; cult., culturing; cyt., cytology; ecol., ecology; econ., economic application, including industrial utilization; gen., genetics; limnol., limnology; morph., morphology; phys., physiology; reprod., reproduction; tax., taxonomy.

- BENOIT, Mr. Richard J. 1911 Quarry St., Philadelphia 3, Pa. (Lecturer in Biology, Swarthmore College). FW (cult. ecol. pollution, plankton) XHR
- BERNATOWICZ, Dr. Albert J. Asst. Prof. of Botany, Univ. of Hawaii, Honolulu 14, T. II. M (ecol. morph. tax.) XHR
- BITRADWAJA, Prof. Dr. Y. Head, Dept. of Botany, Banaras Hindu Univ., Banaras 1, India. FW
- BIEREL, Mr. Paul. Dept. of Botany, Indiana Univ., Bloomington, Ind. GR FW (cult. cyt. morph. sexuality and life cycles) XHR
- BISHOP, Dr. Amelia Sámamo. Instituto de Biología, Casa del Lago, Chapultepec, México, D. F. FW (Chlorococcales, Zygnematales) XHR
- BLASBER, Dr. H. Weston. Assoc. Prof. of Botany, Univ. of Washington, Seattle 5, Wash. Morph.
- BLINKS, Dr. Lawrence R. Director, Hopkins Marine Station, Pacific Grove, Calif. M (Phys: bio-electric phenomena, permeability, photosynthesis)
- BLOMQUIST, Prof. H. L. Dept. of Botany, Duke Univ., Durham, N. C. M (morph. tax. periodicity of reproduction, *Sargassum*) XHR
- BLUM, Dr. John L. Prof. of Biology, Columbia College, Buffalo 8, N. Y. FW (eool. river algae, *Fachleria*, Zygnematales) XHR
- BOCK, Dr. Walter Hofstrasser 18, Wiltburg, Germany. FW (eool. limnol. morph. diatoms, Oedogoniales, Zygnematales) XHR
- BOLD, Prof. Harold C. Box 1501, Vanderbilt Univ., Nashville 5, Tenn. FW, M (cult. cyt. gen. morph. tax.) XCR
- BOTTAIRELLI, Dr. P. Laboratoire de Cryptogamie, 12 Rue de Buffon, Paris 5, France. FW XHR
- BRARCTD, Prof. Dr. Trygve. Institut for marin biologi, Avd. B. Blindern Oslo, Norway. M (cult. eool. econ. plankton, water supplies and contamination) XCP
- BROOKES, Mrs. V. J. (Miss Martha Hamann Hall) 904 S. 10th St., Corvallis, Ore. I M (eool. morph. tax. Phaeophyta)
- BROOKS, Travis. Dept. of Botany, Univ. of Michigan, Ann Arbor, Mich. FW XHR
- BROWN, Mr. Floyd L., Jr. Dept. of Botany, Univ. of Tennessee, Knoxville, Tenn. GR FW (eool. tax. fisheries, culturing *Nitzschia*)
- BURNELL, Prof. Jules. Université de Montréal, Case postale 6128, Montréal, P. Q., Canada. FW (desmids) XHR
- BUTROWS, Mrs. Elsie M., Ph.D. The Hartley Botanical Laboratories, Univ. of Liverpool, Liverpool 3, England. M (eool. especially of Fucomata and Corallinales) XHR
- BURSA, Mr. Adam. Research Fellow, Dept. of Botany, McGill Univ., Montréal, P. Q., Canada. M (cult. cyt. eool. econ. morph. tax. plankton, productivity, fisheries, water supplies) XHRP
- BUTSWELL, Dr. Arthur M. 2713 S. W. 5th Pl., Gainesville, Fla. (Research Professor of Chemistry, Univ. of Florida) Folliation, econ.
- CAMPAGNA, Dr. Elzkar. Professeur de Botanique, Faculté d'Agriculture, Sainte-Anne-de-la-Procédure, (Kamouraska) Québec, Canada. M (tax. algae of the lower St. Lawrence and the Gaspé) XC
- CASSIE, Dr. Vivienne (née Dellow). 51 Poole Crescent, Wainui-mata via Wellington, New Zealand. I M (eool. tax. plankton, fisheries) XTP
- CASPENHOLZ, Mr. Richard W. Botany Dept., State College of Washington, Pullman, Wash. GR FW (eool. of attached algae, productivity)
- CAYLOR, Prof. Richard Lee. Head, Dept. of General Science, Delta State Teachers College, Cleveland, Miss. FW XHR
- CEDERBERG, Dr. Carl. Bergmannsg. 7B, Helsingfors, Finland. (Docent) FW XHR
- CHALMERS, Mrs. Ruth Vinton. Research Assistant, Dept. of Botany, Univ. of Illinois, Urbana, Ill. Phys: photosynthesis, respiration. XC
- CHAPMAN, Prof. V. J. Botany Dept., University College, Auckland, New Zealand. M XHR
- CHOLNOKY, Dr. B. J. Council for Scientific and Industrial Research, P. O. Box 395, Pretoria, Union of South Africa. FW (cult. eool. limnol. diatoms and other microscopical algae) XE

- CHRISTENSEN, Mr. Tryge. Universitetets Botaniske Laboratorium, Gothersgade 146, Copenhagen, Denmark. FW, M (Chlorophyta) XHR
- CHILNO, Mrs. Elizabeth M. 1286 Bay St., Taunton, Mass. (Asst. Prof. of Biology, State Teachers College, Bridgewater, Mass.) M (eool.)
- CLOVIS, Dr. Jesse F. Instructor, Botany Dept., Univ. of Connecticut, Storrs, Conn. FW, M (eool. morph. tax.) XHR
- COCKE, Dr. Elton C. Dept. of Biology, Wake Forest College, Wake Forest, N. C. FW (Cyanophyta) XHR
- COLE, Dr. Kathleen. Dept. of Biology and Botany, Univ. of British Columbia, Vancouver 8, B. C., Canada. M (cult. cyt. eogen. morph. life cycles)
- COLEMAN, Mrs. John R. (Dr. Babbette I. Brown), 2699 Lake Avenue, Rochester 12, N. Y. FW
- CONGER, Mr. Paul S. Assoc. Curator, Div. of Cryptogams, Smithsonian Institution, Washington 25, D. C. Diatoms (eool. econ. morph. tax.)
- CONOVER, Mr. John T. Box 250, R.F.D. No. 1, Palmouth, Mass. Fisheries Research Biologist, U. S. Fish and Wildlife Service. M (cyt. morph. eool. cult. productivity, plankton, benthos, Cryptomonadales) XHR, limnological and hydrographic data from estuarine surveys.
- COOPER, Mr. I. C. G. 280 Rivet Ave., Staten Island 14, N. Y. (Curator, Davis Collection, Staten Island Museum) FW, M (tax. culturing soil algae) XCH
- COUTCH, Dr. Glenn C. Prof. of Botany, Univ. of Oklahoma, Norman, Okla. FW (eool. tax.)
- CRIBB, Mr. Alan B. Dept. of Botany, Univ. of Queensland, Brisbane, Australia. FW, M (eool. tax.) XHR
- CROASDALE, Miss Hannah. Instructor, Dept. of Zoology, Dartmouth College, Hanover, N. H. FW (eool. tax. especially desmids) XE, write Latin diagnoses.
- DATTY, Mrs. Fay Kenoyer, 457 1/2 Winthrop Ave., Indianapolis 5, Ind. (Herbarium Staff Member, Butler Univ.) Characeae (tax.) XHR
- DAILY, Mr. William A. The Herbarium, Dept. of Botany, Butler Univ., Indianapolis 7, Ind. FW (plankton, Chlorococcales, eool. econ. morph. tax. cult.) XHR
- DAMANN, Dr. Kenneth E. Prof. of Botany, Eastern Illinois State College, Charleston, Ill. FW (plankton, productivity) XPR
- DAVIS, Dr. Charles G. Dept. of Biology, Western Reserve Univ., Cleveland 6, Ohio. FW (eool. limnol. plankton, fisheries, Great Lakes) XE
- DAWSON, Dr. E. Yale. Allan Hancock Foundation, Univ. of Southern California, Los Angeles 7, Calif. M (tax. phytogeography) XHR
- DEFLANDRE, Prof. Dr. Georges. Laboratoire de Micropaléontologie, Ecole Pratique des Hautes Etudes, 105 Boulevard Raspail, Paris 6, France. FW (cyt. morph. limnol. plankton) Fossil microplankton, XE
- DE WIT, Miss Kathie. 14th St. and Ocean Ave., Virginia Beach, Virginia. (Teacher of French in high school) M XE
- DICKINSON, Miss Carola I. The Herbarium, Royal Botanic Gardens, Kew, Surrey, England. M (tax.) XHR
- DIEZT, Miss Alma. The Triplett Company, Kalamazoo, Mich. (Microbiologist) Cult. econ. tax.
- DILLER, Dr. Violet M. Assoc. Prof. of Biophysics, Dept. of Physics, Univ. of Cincinnati, Cincinnati 21, Ohio. FW (Biochem. phys. cult.) XCR
- DODD, Dr. John D. Dept. of Botany, Iowa State College, Ames, Iowa. FW
- DOTY, Dr. Maxwell S. Dept. of Botany, Univ. of Hawaii, Honolulu 14, T. II. M (eool. tax.) XHR
- DYERELL, Prof. L. W. Dept. of Botany and Plant Pathology, Colorado A and M College, Fort Collins, Colo. Soil algae. XE
- DUXBURY, Mrs. Alison B. (née Sanderson) P. O. Box 543, Dugway Proving Grounds, Dugway, Utah. I M (eool. morph. tax. Phaeophyta) XE
- DYSON, Prof. Joseph W. 307 Landy Street, Fayette, Mo. (Prof. of Botany, Emeritus)

- EARLE, Miss Sylvia A. 735 Wilkie St., Dunedin, Fla. GR FW, M (eool. econ. limnol. tax.) XHR
- EDMONDSON, Dr. W. T. Dept. of Zoology, Univ. of Washington, Seattle 5, Wash. Plankton (eool. limnol. productivity)
- EGGEBOJ, Mrs. Lois (née Emlank). Bøllahøj Skole, Brønshøj, Copenhagen, Denmark. M (morph. tax. tropical algae) XR
- EMERSON, Dr. Robert. Prof. of Botany, Univ. of Illinois, Urbana, Ill. Cyt. phys. (photosynthesis) XCR
- EREGBOYIC, Dr. Anke. Institut za oceanografija i ribarstvo, Split, Jugoslavija. M (eool. morph. plankton, Phaeophyta and Rhodophyta of Adriatic) XR
- ETCHEVERRY-DAZA, Dr. Héctor. Estación de Biología Marina de la Universidad de Chile, Casilla 13-D, Viña del Mar, Chile. M (eool. cyt. eool. econ. morph. phys. tax. plankton) XCP
- FAN, Mr. Kung-cha Dept. of Botany, Univ. of California, Berkeley 4, Calif. GR FW, M (morph. tax. plankton) XR
- FELDMANN, Prof. Dr. Jean. Laboratoire de Biologie Végétale Marine de la Faculté des Sciences, 195 Rue Saint-Jacques, Paris 5, France. M (eool. cyt. morph. tax. reprod. France and Mediterranean Sea) XHR
- FENSHOULT, Dr. Dorothy E. Assoc. Prof. of Biological Sciences, Illinois State Normal Univ., Normal, Ill. M (morph. tax.)
- FENWICK, Mr. Mason G. Dept. of Biological Sciences, Northern Illinois State College, DeKalb, Ill.
- FERNANDES, Dr. Abilio. Botanical Institute, Univ. of Coimbra, Coimbra, Portugal. FW XR
- FITZGERALD, Dr. George P. Research Associate, Hydraulic and Sanitary Laboratory, Univ. of Wisconsin, Madison 6, Wise. FW (biochem. phys. econ. plankton, pollution) XR
- FLINT, Dr. Lewis H. Prof. of Botany, Louisiana State Univ., Baton Rouge, La. FW (phys. tax. Rhodophyta) XHR
- FLOWERS, Dr. Seville. Prof. of Botany, Univ. of Utah, Salt Lake City 12, Utah. FW (eool. tax. plankton, pollution) XR
- FOREST, Dr. Herman S. Instructor in Plant Sciences, Univ. of Oklahoma, Norman, Okla. FW (eool. tax. soil algae) XH
- FOTT, Dr. Bohuslav. Botanical Institute, Benátská 2, Praha II, Czechoslovakia. FW XHR
- FOX, Mr. J. Eugene. Dept. of Botany, Indiana Univ., Bloomington, Ind. GR FW (eool. morph. Genetics of desmids) XCR
- FRESE, Prof. L. (eoonard) R. 6928 Meadowlawn Dr., Houston 23, Texas. (Prof. of Biology, Univ. of Houston) Diatoms (tax.)
- GETTNER, Prof. Dr. Lothar. Botanische Institut und Botanischer Garten der Universität Wien, Rennweg 14, Wien III, Austria. FW (eool. cyt. eool. morph. limnol. phys. tax. plankton, phycology)
- GILBERT, Dr. William J. Assoc. Prof. of Biology, Albion College, Albion, Mich. FW, M (morph. tax.) XR
- GOJDIC, Miss Mary. Prof. of Biology, Barst College, Lake Forest, Ill. FW (cyt. morph. tax.)
- GORHAM, Dr. Paul E. Division of Applied Biology, National Research Council, Ottawa 2, Ontario, Canada. FW (eool. water supplies and contamination, toxicity of Cyanophyta) XCR
- GRIMM, Mahelen. Chas. Pharmaceutical Products, Summit, N. J. Cyt.
- GRÖNBLAD, Dr. Rolf. Karis, Finland. I FW (desmids)
- GUSTAFSSON, Prof. Alben H. 83 Federal St., Brunswick, Maine. (Chairman, Dept. of Biology, Bowdoin College) FW, M (eool. productivity) XR
- HARRMAN, Dr. Richard T. Asst. Prof. of Botany, Univ. of Pittsburgh, Pittsburgh 13, Pa. FW (eool. eool. phys. plankton) XCPB

- HASEGAWA, Dr. Yoshio. Hokkaido Regional Fisheries Research Laboratory, Yoseki, Hakodate, Japan. M (eool. tax. *Lyellaea* and *Laminaria*) XHR
- HAUGE, Halvor V. Haugesgt. 88B, Drammen, Norway. FW (plankton) XR
- HEIMANS, Prof. Dr. Jacobus. Hugo de Vries Laboratorium, Hortus Botanicus, Amsterdam, Netherlands. FW (desmids) XR
- HERNDON, Dr. Walter R., Jr. Dept. of Biology, Univ. of Alabama, University, Ala. Soil algae (eool. morph.) XCR
- HIGINBOTHAM, Dr. Nee. Prof. of Botany, State College of Washington, Pullman, Wash.
- HILLIS, Miss Llewellyn W. Dept. of Botany, Univ. of Michigan, Ann Arbor, Mich. GR M (morph. phys. tax.) XH
- HINSON, Prof. Dr. Hiroyuki. Dept. of Botany, Faculty of Science, Kobe Univ., Minatogawa, Kobe City, Japan. FW (morph. tax. plankton)
- HIRSCH, Mr. Allan. Sanitary Engineering Center, 4676 Columbia Parkway, Cincinnati 26, Ohio. FW (plankton, limnol.) XR
- HOLTENBERG, Dr. George J. Prof. of Biology, Univ. of Redlands, Redlands, Calif. M (eool. tax. *Pygospionida*, *Kalysia*) XR
- HOLZMAN, Mr. Jerome. Stigmuster & Brewer, Inc., 420 Lexington Ave., New York 17, N. Y. (Engineering designer) FW, M (eool. econ. plankton, productivity, pollution) XO
- HOMMERSAND, Mr. Max H. Dept. of Botany, Univ. of California, Berkeley 4, Calif. GR M (morph. tax.)
- HORWITZ, Dr. Leonard. Research Associate, Dept. of Botany, State College of Washington, Pullman, Wash. Cyt. biochem. phys. eool.
- * HOSKINS, Prof. John H. Head, Dept. of Botany and Bacteriology, Univ. of Cincinnati, Cincinnati 5, Ohio. FW (plankton, morph. tax.)
- HOTCHKISS, Dr. Arland. Asst. Prof. of Botany, Univ. of Louisville, Louisville 8, Kentucky. FW (morph. tax.) XR
- HUGHES, Dr. Elywn O. Atomic Energy of Canada, Ltd., Chalk River, Ontario, Canada. FW (tax. eool.) XR
- HULLBARY, Prof. Robert L. Assoc. Prof. of Botany, State Univ. of Iowa, Iowa City, Iowa. FW (eool. cyt. morph. desmids, diatoms, Volvocales) XCR
- HUMM, Dr. Harold J. Assoc. Prof. of Botany, Duke Univ., Durham, N. C. M (eool. econ. tax. southeastern U. S. and Gulf of Mexico) XHR
- HUTNER, Dr. S. H. Haskins Laboratories, 305 E. 43rd St., New York 17, N. Y. Biochem. eool. eool. XG
- HUYE, Marie. H. Station Marine d'Endoume, Rue de la Batterie des Lions, Marseille 7, France. M (cyt. eool. morph.) XHR
- IMAHOE, Prof. Dr. Kozo. Botanical Institute, Faculty of Science, Kanazawa Univ., Kanazawa, Japan. Chlorophyta (eool. morph. tax.) XHR
- INGRAM, Dr. William M. U. S. Public Health Service, 4676 Columbia Parkway, Cincinnati 26, Ohio. Water supplies and contamination.
- INOE, Prof. Dr. Shunpei. Dept. of Biology, Faculty of Science, Okayama Univ., Okayama, Japan. M (cyt. eool. embryology of Phaeophyta)
- IRENEE-MARIE, Fr. Malson des FF. Inst. Chrétienne, La Pointe-du-Lac, P. Q., Canada. Desmids. XR
- IRVINE, Mrs. Linda M. (née Newton) 21 Cranmer Road, Cambridge, England. FW, M (tax.) XR
- ISAAC, Dr. William Edwin. Prof. of Botany, Univ. of Cape Town, Cape Town, South Africa. M (eool. phycogeography) XR
- IYENGAR, Prof. Dr. M. O. P. 100 V. R. Pillai St., Madras 5, India. FW XR
- JOHNSON, Dr. J. Harlan. Prof. of Geology, Colorado School of Mines, Golden, Colo. Fossil calcareous algae.
- JODY, Dr. A. B. Dept. of Botany, Univ. of São Paulo, Caixa Postal 8,105, São Paulo, Brazil. M (eool. tax.) XHR

* We note with regret the death of Professor Hopkins on February 8, 1957.

- JOST, Dr. Dora N. Asst. Prof. of Biology and Microbiology, State Teachers College, Framingham, Mass. FW (cult. econ. reprod. tax. Zygnematales) XR
- KALLIO, Dr. Paavo, Univ. of Turku, Turku, Finland. Desmids (cult. cyt. gen.) XGR
KEEFE, Rev. Anselm M., Ph.D. Prof. of Botany, St. Norbert College, West DePue, Wisc. FW (uniceleular algae, cult. radiation experiments) XH (*Sargassum filipendula*)
- KIENER, Dr. Walter, 1242 Pawnee St., Lincoln 2, Nebr. (Consultant) FW (ecol.)
KIERNAYER, Dr. Oswald, Linz/Donau, Carl Boschweg 5, Austria. FW (cyt. morph. phys. ecol. cult. vital-staining of desmids, growth hormones) XR, desmid cultures.
KINGSBURY, Dr. John M. Asst. Prof. of Botany, Cornell Univ., Ithaca, N. Y. Cyanophyta, XC
- KINZEL, Dr. Helmut, Pflanzenphysiologisches Institut der Universität Wien, Laeuger- ring 1, Wien 1, Austria. Cyt. cult. ecol. phys. vital-staining.
- KLEBERKOPFER, Dr. Hermann, Dept. of Biology, McMaster Univ., Hamilton, Ontario, Canada. FW (limnol. phys.) XR
- KLINGBERG, Mr. Bruno, 110 N. Loewis Ave., Fort Collins, Colo. (Assoc. Prof., Dept. of Botany and Plant Pathology, Colorado A & M College) FW, M (econ. morph.)
KLOTTER, Dr. Hans-Erich, Rosenweg 15, Karlsruhe-Böppert, Germany. (Special in- vestigator: applied biologist) FW (ecol. limnol. plankton, pollution, water sup- plies) XR
- KRAUSS, Dr. Robert W. Assoc. Prof. of Botany, Univ. of Maryland, College Park, Md. FW, M (biochem. phys.)
KUEHNLE, Dr. Paul E. Annahme, Saskatchewan, Canada. Plankton. XR
- LAMÉ, Dr. Robert, Laboratoire de Cryoprogamie, 12 Rue de Buffon, Paris 5, France.
LEAKE, Dr. Dorothy Y. Head, Dept. of Biology, Southeastern State College, Durant, Oklahoma. FW (ecol. tax.) XR
- LEVERING, Dr. Tore, Marinbotaniska Institutionen, Botaniska Trädgården, Göteborg, Sweden. M (ecol. tax. morph. phys.) XHR
- LEVY, Mr. Carl C. 239 Tipton Lane, New Brunswick, N. J. GR. Biochem. phys. XR
LEWIN, Dr. Ralph A. Marine Biological Laboratory, Woods Hole, Mass. (N. I. H. Investigator) Flagellates (cult. biochem. phys. gen.) XR
LINDAUER, Mr. Victor, Russell, Bay of Islands, New Zealand. I M XHR
LIPPERT, Mr. Byron E. Instructor in Biology, Eastern Oregon College, LaGrande, Ore. FW (ecol. phys. tax.) XHR
- LOMMASSON, Dr. Robert C. Asst. Prof. of Botany, Univ. of Nebraska, Lincoln 8, Nebr. FW (morph. Charales, Ulotrichales) XC
LONERET, Dr. A. C. Research Director, General Biological Supply House, 8200 S. Hoyne Ave., Chicago 20, Ill. FW (microscopy)
- LOOMIS, Mrs. Nina Hosler, 1224 N. Ogden Dr., Hollywood 46, Calif. I M (cyt. morph. tax. Gelidiales) XHR
- LOWRY, Dr. Edward M. Box 2215, Zoology, State College Station, Raleigh, N. C. Plankton, baitfood. XR
- LUND, Dr. J. W. G. Freshwater Biological Association, The Ferry House, Par Sawrey, Ambleside, Westmorland, England. FW
LUTHER, Dr. Hans, Botanical Institute, Univ. of Helsinki, Helsinki, Finland. FW, M (ecol. tax.) XHR
- MABILLIE, Jean, Bertheimcourt sur Moy, Aisne, France. I Cyanophyta. XHR
MacFARLANE, Dr. Constance, Nova Scotia Research Foundation, Halifax, Nova Scotia, Canada. M (econ.)
- MALONEY, Mr. Thomas E. Sanitary Engineering Center, 4676 Columbia Parkway, Cincinnati 26, Ohio. (Microbiologist) Phys. biochem. cult. XR
MATOS, Mr. Avyron de, Rua Cel. Dudaio 638, Curitiba, Paraná, Brazil. FW, M (cult. cyt. morph. tax.) XHR
McAVOY, Dr. Blanche, 5476 Foley Road, Cincinnati 38, Ohio. (Prof. Emeritus of Biology, Illinois State Normal Univ.) Plankton (cult. tax.)

- McCOMBIE, Mr. Alon M. 87 Jackson Ave., Toronto 6, Canada. (Demonstrator in Zoology, Univ. of Toronto) FW (plankton, ecol. productivity) XR
McLACHLAN, Mr. Jack, Dept. of Botany, Oregon State College, Corvallis, Ore. (Re- search Assistant) FW (cult. ecol. plankton, productivity, *Aphanizomenon*) XGR
McMILLAN, Dr. Rosamond, Prof. of Biology, Tift College, Forsyth, Georgia. FW (cult. cyt. phys. morphogenesis, polyuronidam, cytotoxic inhibitors, life cycles, Chlorococcales) XR
- McNABB, Mr. Clarence D., Jr. Dept. of Botany, Univ. of Wisconsin, Madison 6, Wisc. GR FW (ecol. tax. plankton, pollution, life cycles of Cyanophyta) XPR
McNEILL, Prof. E. Merde, Head, Dept. of Biology, Concord College, Athens, W. Va. FW (tax.) XHR
- METZNER, Dr. Jerome, 67-13 Yellowstone Blvd., Forest Hills 75, N. Y. (Chairman, Dept. of Biology, High School of Science, N. Y. C.) FW (biochem. phys. cyt. morph. cult. econ.) XR
- MOORE, Mr. Edward W. Box 196, Oatula, Mass. (Lecturer, Harvard Univ.) FW, M (ecol. pollution)
- MOORE, Miss Lucy B. Botany Division, Dept. of Scientific and Industrial Research, 8 The Terrace, Wellington, New Zealand. M (ecol. tax. Sphaerotriales)
- MOULI, Dr. Edwin T. Assoc. Prof. of Botany, Rutgers Univ., New Brunswick, N. J. FW, M (ecol. tax. *Heterocysta*) XHR
- MOYLE, Dr. John B. Minnesota Dept. of Conservation, 400 Shubert Bldg., St. Paul, Minn. (Research supervisor) FW (plankton, pollution, tax.)
MUNSCHEER, Mr. W. C. 1001 Highland Road, Ithaca, N. Y. (Prof. Emeritus of Botany, Cornell Univ.)
MULLAHY, Rev. John Henry, Ph.D. Chairman, Dept. of Biological Sciences, Loyola Univ., New Orleans 18, La. FW, M (cyt. morph. Rhodophyta) XHR
MYERS, Prof. Jack, Dept. of Zoology, Univ. of Texas, Austin, Texas. Biochem. phys. cult. econ.
- NASH, Dr. A. H. Prof. of Botany, Faculty of Science, Univ. of Alexandria, Alexandria, Egypt. FW, M (ecol. tax.) XHR
NEEL, Dr. Joseph Kendall, 2925 Van Brunt Blvd., Kansas City 28, Mo. (Basin Biolo- gist, U. S. Public Health Service) FW (plankton, productivity, pollution) XR
NIELSEN, Dr. C. S. Assoc. Prof. of Botany, Florida State Univ., Tallahassee, Fla. (Synophyta (tax.) XHR
NIZAMUDDIN, Mr. Mohammed, Dept. of Botany, Univ. of Karachi, Karachi, Paki- stan. (Temporarily at Dept. of Botany, Univ. of Adelaide, Adelaide, Australia) M (morph. tax. Phaeophyta of Karachi) XHR
- NORRIS, Dr. Fred H. Assoc. Prof. of Botany, Univ. of Tennessee, Knoxville, Tenn. FW (morph.) XR
NORRIS, Dr. Richard E. Instructor in Botany, Univ. of Minnesota, Minneapolis 14, Minn. FW, M (cult. cyt. morph. phys. tax. plankton, Rhodophyta, Chrysophyceae) XCHP
- OGDEN, Dr. Eugene C. New York State Museum, Albany 1, N. Y. (State Botanist) FW
OHMI, Prof. Dr. Hikoni, Faculty of Fisheries, Hokkaido Univ., Hokodate, Hokkaido, Japan. M (ecol. tax. Gracilariales) XHR
OLSON, Prof. Theodore A. School of Public Health, Univ. of Minnesota, Minneapolis 15, Minn. FW (ecol. tax. plankton, pollution) XPR
- OPHELT, Mr. Ivan L. Atomic Energy of Canada, Ltd., Chalk River, Ontario, Canada. FW
- PALMER, Dr. C. Merwin, Sanitary Engineering Center, 4676 Columbia Parkway, Cin- cinnati 26, Ohio. (Aquatic Biologist) FW (biochem. phys. ecol. tax. cult. econ. plankton, productivity, pollution, *Lemanea, Sphaerotis*) XHR
PALMINHA, Dr. Francisco P. Botanical Institute, Univ. of Lisbon, Rua da Escola Politécnica, Lisbon, Portugal. M (ecol. morph. tax. econ.) XH
PALMITER, Dr. Claire, 1111 Elm Ave., Richland, Wash. I. FW (radiation)

PAPENFUSS, Dr. George F. Prof. of Botany, Univ. of California, Berkeley 4, Calif. M (morph. tax. cult.) XR
 PARKER, Miss Mary, Ph.D. The Laboratory, Chesham Hill, Plymouth, England. M XR
 PARKER, Dr. B. W. Head, Dept. of Biology, Lehigh Univ., Bethlehem, Pa. FW (pollution, econ.)
 PATRICK, Dr. Ruth. Curator of Limnology, Academy of Natural Sciences, Philadelphia 3, Pa. FW, M (tax. ecol. cult. pollution, diatoms) XR
 PHILLIPS, Dr. J. Neal, Jr. Microbiology Research, Bristol Laboratories, Inc., Syracuse, N. Y. FW (euk. econ.) XR
 PHILLIPS, Mr. Ronald C. Dept. of Botany, Univ. of Michigan, Ann Arbor, Mich. GR M (eol. tax. morph. Gymnophyta) XII
 PHINNEY, Dr. Harry K. Assoc. Prof. of Botany, Oregon State College, Corvallis, Ore. FW (eol. tax. cult. pollution, plankton, Chloophorales) XR
 PHINNEY, Mrs. Harry. Dept. of Botany, Oregon State College, Corvallis, Ore. FW (Ultrachloocae)
 POCHMANN, Dr. Alfred. Limnologische Station Niederrhein, Am Waldwinkel (22a) Krefeld-Hülserberg, Germany. FW (cyt. morph. tax. flagellates esp. Euglenophyta) XR
 POWELL, Mr. R. T. Marine Station, Millport, Isle of Gumbrae, Scotland. M (eol. tax.) XR
 PRESCOTT, Dr. G. W. Prof. of Botany, Michigan State Univ., East Lansing, Mich. FW (eol. algal control, desmids) XHR
 PRINGSHEIM, Prof. Dr. E. G. Pflanzenphysiologisches Institut der Universität, Untere Karpfhe, Göttingen, Germany.
 PRINTZ, Prof. Dr. Henrik. Norges Teknisk-Naturvitenskapelige Forskningsråd, Blindern-Oslo, Norway. M (morph. tax. ecol. phys. econ. water supplies and contamination) XR
 PROCTOR, Dr. Vernon W. Asst. Prof. of Biology, Texas Technological College, Lubbock, Texas. FW (eol. phys. cult.)
 PROVANSOLI, Dr. L. Hashtus Laboratories, 305 E. 43rd St., New York 17, N. Y. (Research Associate) FW, M (eol. phys. cult.) XCR
 RAYSS, Prof. Dr. Tsolarnu. Dept. of Botany, The Hebrew Univ., Jerusalem, Israel. M (limnol. plankton, tax.) XHR
 REAZIN, Dr. George Harvey, Jr. Dept. of Biology, Brookhaven National Laboratory, Upton, L. I., N. Y. Phys. cult. XR
 REIER, Prof. Charles Brandtöck, Chairman, Dept. of Biology, Wilkes College, Wilkes-Barre, Pa. FW (plankton) XR
 REIMIER, Dr. Charles W. 2541 Cedar Lane, Holmes, Pa. I FW (eol. tax. plankton, diatoms)
 REIST, Mr. Richard Trent. 812B Maple Lane, Michigan State Univ., East Lansing, Mich. GR. Plankton, water supplies. XR
 RENTJUND, Mr. Robert N. Biology Dept., Ely Junior College, Ely, Minn. FW (eol. plankton) XP
 RHO, Mr. Jeon Hee. Dept. of Botany, Duke Univ., Durham, N. C. GR M (eul. phys.) XHR
 RODHE, Dr. Wilhelm. Institute of Limnology, Uppsala, Sweden. FW (eol. limnol. plankton, water supplies and contamination, fisheries, productivity) XR
 RUNK, Dr. B. F. D. Prof. of Biology, Univ. of Virginia, Charlottesville, Va. M (morph. tax.)
 SCAGHEL, Dr. Robert F. Dept. of Biology and Botany, Univ. of British Columbia, Vancouver 8, B. C., Canada. M XHR
 SCHINDLER, Mr. John F. 47 Glenwood Ave., Tooele, Utah. (Temporary military service) FW, M (eol. morph. tax. Rhodophyta)
 SCHELICHTING, Mr. Harold E. 1403 University Village, East Lansing, Mich. GR FW (eol. limnol. plankton) XR

SCHÖN, Dr. Walter J. Gladenbachweg 12, Marburg/Lahn, Germany. FW (eul. econ. phys. photosynthesis, mineral nutrition) XCR
 SCHRAMM, Prof. J. R. Dept. of Botany, Indiana Univ., Bloomington, Ind. (Research Scholar) FW (cult.)
 SCHUMACHER, Dr. George J. Asst. Prof. of Biology, Hargov College, State Univ. of New York, Binghamton, N. Y. FW (plankton, desmids, tax. eol. pollution) XPR
 SCHUSSNIG, Prof. Dr. Bruno. Oberer Philosophieweg 26, Jena, Germany. FW, M (eul. cyt. morph. eol. econ. phys. limnol. tax. plankton, theology, phytoz.)
 SCOTT, Mr. A. M. 2824 Dante St., New Orleans 18, La. I Desmids (tax.) XHR
 SEGAWA, Prof. Dr. Sôichi. Fisheries Laboratory, Faculty of Agriculture, Kyushu Univ., Fukuoka, Japan. M XHR
 SEGI, Prof. Dr. Toshio. Faculty of Fisheries, Prefectural Univ. of Mie, Okinouchi, Ise, Mie Prefecture, Japan. M XHR
 SHARP, Dr. Aaron J. Head, Dept. of Botany, Univ. of Tennessee, Knoxville, Tenn. FW (plankton, morph. tax. eol. econ.) XR
 SILVA, Dr. Paul C. Asst. Prof. of Botany, Univ. of Illinois, Urbana, Ill. FW, M (all aspects) XHR
 SILVEY, Dr. J. K. G. Director, Dept. of Biology, North Texas State Teachers College, Denton, Texas. FW (plankton, relation to tastes and odors) XR
 SMITH, Prof. Gilbert M. Dept. of Biological Sciences, Stanford University, Stanford, Calif. (Emeritus) FW, M XR
 SOLJHEIM, Prof. W. (Theodor) G. (ehard). Dept. of Botany, Univ. of Wyoming, Laramie, Wyoming. FW (tax.)
 SORIANO, Mr. J. D. Dept. of Botany, Univ. of the Philippines, Quezon City, P. I. XHR
 SPARLING, Dr. Shirley. Dept. of Biology and Botany, Univ. of British Columbia, Vancouver 8, B. C., Canada. FW, M (morph. tax.)
 STARB, Dr. Richard C. Asst. Prof. of Botany, Indiana Univ., Bloomington, Ind. FW (cyt. morph. cult. sexuality and genetics, esp. of desmids) XCR
 STEERE, Dr. William Campbell. Prof. of Biology, Stanford Univ., Stanford, Calif. Cyt. morph. (teaching interest only)
 STEIN, Miss Janet R. Dept. of Botany, Univ. of California, Berkeley 4, Calif. GR FW (cyt. morph. tax. cult. pollution, Volvocales) XO
 STOIOPF, Mr. Leonard. Seaplast Chemical Corp., 63 Davið St., New Bedford, Mass. (Research Director) M (Hydrocolloids) X-commercial samples.
 STOSCH, Prof. Dr. H. A. von. Botanisches Institut der Universität, Pilgrinstr. 4, Marburg/Lahn (16), Germany. M (cyt. morph. eol. phys. cult. plankton, life histories of diatoms and flagellates, nutrition) XR
 STRICKLAND, Dr. J. C. Assoc. Prof. of Biology, Univ. of Richmond, Richmond, Va. Gymnophyta (cyt. morph. tax.)
 SUTHERLAND, Mr. James A. Dept. of Biology, Teachers' College, Amundale, N. S. W., Australia. Plankton, limnol. Polyc. XPR
 SVEDELJUS, Prof. Dr. Nils. Kyrögårdsgatan 5A, Uppsala, Sweden. (Emeritus) M (cyt. morph. Rhodophyta)
 TAIIPASAVI, E. R. S. Dept. of Botany, Banaras Hindu Univ., Banaras 5, India. Biochem. phys. cult. Cyanophyta.
 TAYLOR, Prof. William Randolph. Dept. of Botany, Univ. of Michigan, Ann Arbor, Mich. FW, M (eol. tax. phytogeography) XHR (by arrangement)
 TELLE, Mr. Edward, Jr. 8318 Elm Ave., Brookfield, Ill. (Applied biologist) Cult. water supplies and contamination, algae.
 THOMPSON, Dr. Rufus H. Assoc. Prof. of Botany, Univ. of Kansas, Lawrence, Kansas. FW (plankton, Dinophyceae, Chrysophyceae, cyt. morph. eol. tax. cult.) XPR
 TIFFANY, Prof. L. H. Prof. of Botany, Northwestern Univ., Evanston, Ill. FW (Oedogoniaceae, morph. tax. eol. cult.) XR
 TOKIDA, Prof. Dr. Jun. Faculty of Fisheries, Hokkaido Univ., 253 Minatomachi, Hakodate, Japan. M (cyt. morph. tax. eol. life histories) XHR

- FRANZOR, Mr. F. R. Box 1411, Station B, Nashville 5, Tenn. GR (Vanderbilt Univ.)
FW (morph. phys. cult. sexuality in *Chlamydomonas*) XR
- TRANSLEAT, Dr. Edgar N. 2079 West 5th Ave., Columbus 12, Ohio. (Prof. Emeritus of Botany, Ohio State Univ.)
- TWEED, Mr. R. D. "Shermoor," St. George's Drive, Degunwy, North Wales, U. K. (University College of North Wales, Bangor) FW XR
- THLIER, Mr. Francis M. U. S. Fish and Wildlife Service, Patuxent Research Refuge, Laurel, Md. FW (plankton, ecol. pollution) XP
- VELASQUEZ, Dr. Gregorio T. Dept. of Botany, Univ. of the Philippines, Quezon City, P. I. FW (Cyanophyta) XHR
- YINVAHD, Mr. William C. Instructor in Botany, Montana State Univ., Missoula, Mont. FW (plankton, ecol. tax. productivity) XR
- YOTH, Prof. Paul D. Dept. of Botany, Univ. of Chicago, Chicago 37, Ill. FW (morph. ecol. cult.) XC
- WADE, Dr. Willbur E. Dept. of Natural Science, Michigan State Univ., East Lansing, Mich. Desmids. XR
- WAERN, Dr. Mats. Vaxbiologiska Institutionen, Uppsala Univ., Uppsala, Sweden. FW, M (ecol. tax.) XHR
- WETHERELL, Dr. Donald F. Research Associate, Dept. of Botany, Univ. of Maryland, College Park, Md. FW (biochem. phys. gen.) XR
- WHELDEN, Dr. Roy M. 1656 Gillespie St., Schenectady 8, N. Y. FW (cyl. tax.)
- WHITFORD, Dr. I. (arry) A. (ston). Assoc. Prof. of Botany, North Carolina State College, Raleigh, N. C. FW (plankton ecol. tax.) XHR (by arrangement)
- WILBOIS, Miss Annette D. Dept. of Botany, Indiana Univ., Bloomington, Ind. GR Taxonomy, sexuality and genetics of Volvocaceae.
- WILLIAMS, Dr. Louis G. Prof. of Biology, Furman Univ., Greenville, S. C. FW, M (ecol. phys.)
- WILLIAMS, Dr. Robert Haworth, Prof. of Botany, Univ. of Miami, Coral Gables 46, Fla. M (biochem. phys. ecol. econ.) XR
- WILLSON, Mr. Dan L. 703 Asp. Norman, Oklahoma. GR (Univ. of Oklahoma) Cyl. ecol. morph. cult. soil algae. XCH
- WOLLE, Mr. Philip W. Princess Anne, Md. I Diatoms, desmids.
- WOMERSLEY, Dr. H. B. S. Dept. of Botany, Univ. of Adelaide, Adelaide, Australia. M (ecol. phylogeography, tax.)
- WOOD, Dr. Richard D. Assoc. Prof. of Botany, University of Rhode Island, Kingston, R. I. FW, M (tax. ecol. cult. Characeae, brookish water flora) XHR, Hwhg Characeae.
- WOODHEAD, Mr. N. Dept. of Botany, University College of North Wales, Bangor, U. K. FW (ecol. tax.) XR
- ZEHNDER, Dr. Alfons. Bremgarten (Aargau), Switzerland. FW (plankton, cult. phys. Cynophyta) XR

Organizations (9)

- British Museum (Natural History), Cromwell Road, London S.W. 7, England.
- Indian Council of Agricultural Research, Queen Victoria Road, New Delhi, India.
- Indiana University, Bloomington, Indiana.
- New York Botanical Garden, Bronx Park, New York 58, N. Y.
- Rijksherbarium, Nonnensteeg 1, Leiden, Netherlands.
- Universidade do Porto, Instituto de Botanica, Porto, Portugal.
- University of Uppsala, Institute of Systematic Botany, Uppsala 1, Sweden.
- University of Wisconsin, Madison 6, Wisconsin.
- The Upjohn Company, Kalamazoo, Michigan.

Phycological Literature for 1954

(concluded)

Compiled by P. C. SUVA

AGRICULTURAL AND INDUSTRIAL UTILIZATION

(See also under physiology and biochemistry the following entries: Black, Black and Dewar, Haug and Jensen, Iwasaki and Matsubara, Kole and van Corshol, Kranss and Thomas, Landberg and Kjellgren, Lindberg and Pajin, Munnar, Moss and Nayler, Owen, Pruess *et al.*, Torgnawa, Fugusawa and Mine, Wasink, Woodward, under morphology the following entries: Kaland *et al.*, Kato, under ecology the following entries: Sato *et al.*, Takeuchi *et al.*, Walker, Yamashiki.)

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ABSTRACTS OF PAPERS PRESENTED AT STORES

(continued)

A Preliminary Report on the Use of Cultural Characteristics in the Taxonomy of some Unicellular Chlorococcales

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Preliminary experiments using cultural characteristics showed that seven *Chlorococcum minutum*-like organisms could be distinguished from each other on the basis of cultural attributes alone. These seven and *Chlorococcum minutum* Starr were grown in the following solidified media: Basal medium (composed of 6 inorganic salts), basal medium + yeast extract, basal medium + soil extract, basal medium + proteose peptone, basal medium + dextrose, basal medium + liver extract, (Difco) Nutrient Agar, (Difco) Potato Dextrose Agar, basal medium + starch and Knop's agar. After inoculation, the petri plate cultures were subjected to 12 hours daily illumination at an intensity of 250 foot candles and at a temperature of 22°C. At the end of 35 days, the colonies began to show differences in color and texture, color ranging from a dark dull green to a very light shiny apple green and texture from slimy smooth to dry granular.

The colonies exhibited different cultural characteristics on different media but no two possessed the same combination of color and texture on the same medium.

Darbaker Prize in Phycology for 1957

The Darbaker Prize Committee of the Botanical Society of America will accept nominations for an award to be announced at the annual meeting of the Society in 1957. Under the terms of the bequest, the award is to be made for meritorious work in the study of algae, particularly microscopic algae. The Committee will base its judgment primarily on the papers published by the candidate during the last two full calendar years previous to the closing date for nominations. Only papers published in the English language will be considered. Nominations for the 1957 award accompanied by a statement of the merits of the case and by reprints of the publications supporting the candidacy should be sent to the Chairman of the Committee in order to be received by May 1, 1957. The value of the Prize for 1957 will depend on the income from the trust fund but is expected to be about \$150.

H. C. Bold, R. W. Krause, Ruth Patrick,

R. C. Starr, G. F. Papenfuss, Chairman