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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

Sept 17 1958

Dear friend Buzicka,

Many thanks for sending me the reprint of your paper on Desmidiaceen aus dem Quellgebiete auf dem Maly Ded, and also for the book by Prof. Dr. Bohuslav Fott. Your drawings and photographs, as always, are beautiful.

As you are aware, I do not know the Czech language, so I cannot read Prof. Fott's book; in fact I do not even know the meaning of its title "Sinice a Rasy". Thus it would merely stand in my bookcase without being of use to anybody. If you know of some algologist who can make use of it, I would gladly send it to him.

I have sent you a copy of a paper by Scott & Prescott, "Some freshwater algae from Arnhem Land in the Northern Territory of Australia", together with an extra set of the plates for your iconothèque. It was written six years ago, but was published only last month. It will not be of much help to you in your study of European desmids, but will acquaint you with some of the curiosities that exist in such far-off tropical countries.

Recently I completed drawing 63 plates of illustrations for a new paper by Scott & Prescott on Indonesian desmids, which will be the most important paper dealing with this region since Krieger's "Sunda" paper of 1933. It describes and illustrates more than 500 desmid taxa, against the 377 listed by Krieger. I hope that it can be published next year.

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Life here is going on just as usual. My health is not very good; the infirmities of old age are catching up with me; I am nearly 71 years old. My collecting days are over, and I am not even making any effort to obtain collections from other countries. All I can hope for in my few remaining years is to complete the study and publication of the desmids in material that I now have on hand, - a small lot of samples from Central America, Panama and Cuba that I collected several years ago; a large series from Brazil; some miscellaneous samples from various parts of Australia; and the remaining unpublished desmids from my own collections in southeastern USA.

I hope that everything is going well with you, and send you my best wishes and regards.

Sincerely,

Třebouň, 7.2.1958.

Dr. JIŘÍ ROŽIČKA

Lieber und geehrter Freund!

Dieser Tage hat eine Versammlung der Algologischen Section der Societas Botanica Cechoslovaca betreffs der Vorbereitung des Algologischen Symposiums stattgefunden. Es wurde festgestellt, dass der Termin September 1958 für einige ausländische Gäste viel zu kurz ist, um rechtzeitig ihre Freimachung oder die finanzielle Sicherstellung herwirken zu können. Nebst dem bestehen auch bei uns verschiedene Hindernisse. Deshalb wurde beschlossen, das Symposium um ein Jahr später, d.H. im September 1959 zu veranstalten. Zeitig wird es an den XIV. limnologischen Kongress in Wien angeschlossen, damit die Teilnehmer den Kongress wie auch das Symposium besuchen können. Ich gebe Ihnen diesen neuen Termin bekannt, allerdings nicht ohne besorgt zu sein, dass auch er Ihnen nicht gelegen sein dürfte.

Mit einer grossen Erleichterung kann ich Ihnen anmelden, dass ich in Jänner die letzte Prüfung gemacht habe. Zwei Jahren habe ich mit den Prüfungen verloren, in welchen habe ich keine nützliche Arbeit gemacht. Jetzt werde ich noch eine schriftliche Arbeit verfassen müssen, was noch etwa 1-2 Jahren dauern wird.

Ich danke sehr für die Separata. Ich habe namentlich Ihre und Dr Grönblads Arbeit über Desmidiaceen von USA bewundert. Wenn nur eine ähnliche Arbeit auch über die mitteleuropäischen Desmidiaceen bestehe! Habe ich Ihnen noch nicht über diese schöne Arbeit geschrieben?

Für sehr wichtig halte ich Ihre Beobachtungen über die Variabilität ~~der~~ einiger Arten, z.B. A. subulatus, und die Beobachtung über die Zellmembran beim C. brebissonii var. hirsutum /Lütkenmüller 1902!/. Die ~~Alge~~ kann wohl mit dem "G. brebissonii?" in Bennett 1888 t.1:12 identisch sein, seine primitive Zeichnung zeigt auch eine auf 2 Stücke geteilte Membran.

Anstatt St. cerastes "var. gracilius Grönbl." sollte jedoch "var. simplicius Grönblad 1948 pag. 424" stehen, nicht wahr? Gultig ist das mit der Diagnose verbundene Epitheton "simplicius" und nicht "gracilius", welches nur ~~ürrtümlich~~ in der Legende angegeben ist. Auch auf die Zugehörigkeit der "var. latum" zum C. zornatum kann ich nicht glauben, diese Alge gehört wohl zum Formenkreis von C. difficile.

Ihre interessante Beobachtung bei Desm. pseudostreptonema a.d. tab. 36:13-15 habe ich auch beim D. swartzii gesehen, und ich habe sie auch für Keimling gehalten. Hier ist eine schlechte, 10 Jahren alte Mikrophotographie.

Mit besten Grüßen bleibe ich
Ihr ergebener

Jiří Rožička



February 24 1958

Dear friend Ruzicka,

I was very happy to receive your letter of Feb. 7th, and to know that everything is going well with you. I must confess that I do not understand why you have had to take all those examinations, but hope that your success in passing them will benefit you, perhaps my promotion to a higher position.

As I mentioned in my last letter, it will be quite impossible for me to attend the Algologische Symposium, for reasons of both health and money. But it seems to me that the new date of September 1959 is not very well chosen, because it follows so soon after the IX International Botanical Congress which is to be held in Montreal, August 19-29, 1959. I hope to go there and meet most of the prominent American phycologists and some of the European ones also, but obviously it would be very difficult for anyone to attend both the Montreal Congress and yours.

As to the *Cosm. zonatum* var. *latum*, in the paper on Desmids of S.E. USA. I can easily understand that you may hold a different opinion, because the front view looks like *C. zonatum*, but the vertical view is more like *C. difficile*. However, there is a good precedent for our name in *C. zonatum* var. *javanicum* (Gutw.) Krieg., which has an inflated elliptical vertical view pretty much like ours.

Grönblad wrote the reference to *St. cerastes* var. *gracilius* Grönbl. 1948, Fig. 45, and I did not check it. His only paper published in 1948 that I possess is his "List of desmids from 'Velikada Guba'", which does not contain this reference to "Grönblad 1948 pag. 424" makes the matter more puzzling, for this page number does not occur in any of his papers that I have, and I cannot find either var. *gracilius* or var. *simplicius* anywhere. So I shall have to ask him for more information.

I do not have Bennett's 1888 paper, so cannot comment on his drawing of *G. brebissonii*. In a new paper on "Sudanese Desmids" by Grönblad, Prowse and Scott, which is now being printed, you will see an illustration of a similar phenomenon in *Gonatozygon*.

Your photograph of *D. swartzii* with the hemispherical end semicells is very interesting. Zygospores are frequently seen in several species of *Desmidiium*, so it is strange that these newly formed and curiously shaped semicells have not been recorded previously, so far as I know.

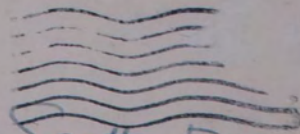
I have just finished the rough draft of the new large paper on Indonesian desmids from Borneo, Sumatra and Java, and am now engaged in drawing the plates of illustrations. There are more than 500 taxa, including many new ones.

With my best regards and good wishes,

Yours sincerely,

PRINTED MATTER

KHARSA
9 JAN
24 OCT
1957
SUDAN



A. M. Scott, Esq

2824 Dante Street

New Orleans
La.

U. S. A.

U.S.A.

HYDROBIOLOGICAL RESEARCH UNIT

UNIVERSITY COLLEGE, KHARTOUM, SUDAN, AFRICA

1. A reprint of _____

is requested

2. We acknowledge with thanks receipt of your interesting publications:

*D. M. Scott & R. Grönblad "New and interesting
Dinoflagellates... United States.*

Acta Soc. Scient. Fenn. 3. 11-8.

20/10/57

Julian Grönblad

Nov 6 1957

Dear friend Ruzicka,

Many thanks for the invitation to attend the algological Symposium of the Societas Botanica Czecho-Slovaca at Prague next year. I should like very much to visit your country and meet you in person, after all these years of correspondence, and also to make the acquaintance of other European algologists.

I regret to say, however, that it is quite impossible. Since my retirement on a comparatively small income I could not afford such a trip, and I am not connected with any Institution that would pay my expenses. A few years ago I applied to the National Science Foundation for a monetary grant to attend the 8th Botanical Congress at Paris, but was unsuccessful, and later I learned that their grants are made only to younger men, to whom the experience and contacts will be more useful than to oldsters like me.

Next January I shall be 70 years old, and I have not been in very good health since my illness of last April. So I am afraid that my travelling and collecting days are over, but I have enough desmids on hand to keep me busy for several years.

Just now I am in the midst of writing the paper on Indonesian desmids that I have mentioned before, and hope it may be published next year. Another paper by Grönblad, Frowse & Scott on Sudanese desmids has gone to the printer and I should get the proofs soon. Some weeks ago I returned to Australia the corrected proofs of a paper by J. H. Prescott on *Ulothrix* from Arnhem Land which was written in 1952, 5 years ago, so that may be printed next year, I hope.

I wrote you last on June 30 1957 and sent you two reprints of small desmid papers, which I hope you received. Also Grönblad told me that he had sent you a copy of our large paper on USA desmids with an extra set of the plates for your iconothek. The book by Prof. Fott that you said you would send has not arrived here.

With my best regards and good wishes for you and your family,

Sincerely yours,

Třeboň, den 31. Oktober 1957.

Lieber und geehrter Freund !

Als Sekretär der Algologischen Sektion der SOCIETAS BOTANICA ČECHOSLOVAKA erlaube ich mir Ihnen mitzuteilen, dass diese Sektion ein algologisches Symposium vorbereitet, welches wahrscheinlich im Monate Juni oder September 1958 in Praha stattfinden soll. Es sollen dort moderne Methoden in der Systematik der Algen (z.B. Kultivations- oder zytologische Methoden, usw.) besprochen werden. Über Einzelheiten wird man noch in diesem Jahre einig werden.

Leider ist es aber nicht gelungen die nötigen finanziellen Mittel für die Teilnehmer aus dem Auslande sicherzustellen, so dass diese für ihre Spesen aus eigenen Mitteln oder aus jenen ihrer Institute aufkommen müssten.

Es würde uns zu grosser Ehre gereichen, wenn auch Sie an unserem Symposium teilnehmen und zu seinem Erfolg mit einem kleineren Vortrag oder Diskussionsbeitrag beisteuern würden.

Somit wäre ich Ihnen sehr verbunden, wenn Sie mir demnächst unverbindlich mitteilen möchten, ob Sie unter den angeführten Bedingungen an unserem Symposium teilnehmen wollen und können und ob auch Ihr werter Name in das Verzeichnis jener Persönlichkeiten aufgenommen werden darf, denen später rechtzeitig eine offizielle Einladung zugesandt werden soll.

Verzeihen Sie, dass ich diesmal deutsch schreibe. Ich komme immer mehr und mehr aus der Übung im Englischen und mein Freund, der mir in der Korrespondenz mit Ihnen behilflich war, ist nicht mehr in unserem Institut angestellt.

Mit den besten Grüssen verbleibe

Ihr ergebener

J. Božička

June 30 1957

Dear friend Ruzicka,

It was I who owed a letter to you, not vice versa. I asked Grönblad to tell you the reason why I did not write, and I hope he has done so, for I do not want you to think that I have forgotten you.

Yes, you told me in one of your previous letters that you had to pass some more examinations, but I must confess that I do not understand the reason, especially at your age. I hope you get something to show for all the work that you have done in studying, such as a new degree, Dr. phil., Sc. D., or the like. During the last year I have received a few algological papers from the USSR, written in Russian of course, so I bought a Russian dictionary thinking that I might be able to translate some of the text. But I am 20 years older than you, and I found it quite impossible. At my age it is even very difficult to keep up with the modern developments of science; I read several popular science magazines like the Scientific American, but the facts do not remain in my memory.

Two days ago my wife and I returned from a visit to East Lansing, Michigan, where I spent eight days with Prof. Prescott, going through his iconotheque to identify the desmids depicted in 1032 drawings of Indonesian specimens, comprising something like 400 taxa, on which I have been working for several years. This was a tiresome job, requiring seven full days of work from 9 am to 6 pm, with 45 minutes out for lunch, and at the end of the day I had a severe backache from bending over the desk for so long. I am not in the best of health; 3 months ago I had a severe illness, and spent 10 days in the hospital, six days under an oxygen tent. But the Indonesian desmids are marvellous, with many new taxa, and a lot of species that have not been reported since their original discovery 50 to 75 years ago. Now I must undertake the task of writing descriptions for all these novelties, and draw the plates of illustrations.

Grönblad has just written me that our large paper on USA desmids has been printed and the reprints have been sent to me. Probably he will send you a reprint and perhaps you will have received it by this time. I asked him to order extra copies of the plates, for distribution to those desmidiologists who are compiling iconotheques.

About two weeks ago I sent you two small reprints, one by Krieger & Scott "Einige Desmidiaceen aus Peru", and another by Scott & Prescott describing a very strange new genus from Sumatra, Ichthyodontum Sachlanii, which I hope will reach you in due time.

I shall be happy to receive a copy of Prof. Fott's book on Algae, and I am quite sure that your illustrations will be excellent, as they always are. It was good to receive your letter, and to know that you are getting along allright.

With my best regards and good wishes,
Your friend,

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CIVIL SERVICE
JOIN NOW



A. M. Scott Esq.
2824 Dante Street
New Orleans, La.
U. S. A.

R/1

Department of *Botany*
- British Museum (Natural History),
- Cromwell Road,
London, S.W.7.

2 October 1957

Please accept my grateful thanks for Publications just received.

R. Rast

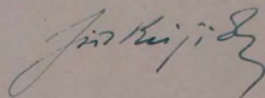
BIOLOGICAL INSTITUTE
of Czechoslovak Academy of Sciences
HYDROBIOLOGY
TŘEBONĚ, Czechoslovakia

Dec. 15 1956

Dear friend,

I send you my best wishes for a Merry
Christmas and Happy New Year.

Yours sincerely

A handwritten signature in cursive script, appearing to read "J. Kříž", written in dark ink.

BIOLOGICAL INSTITUTE

of Czechoslovak Academy of Sciences

HYDROBIOLOGY

TŘEBŮŇ, Czechoslovakia

October, 5 1956.

Dear friend!

I spent all the summer at several excursions. The most long one I untermised into the Tatra-mountains; I collected about 200~~0~~ samples and made about 400 drawings. There are very interesting things in this material. Some species are probably new /species novae are already rarely found in Europa nowadays/, other species have been only once or very rarely found till now. I investigated also the hot medicinal springs in at Bojnice where I found interesting diatoms and blue algae but, to my regrets, no desmids. Now, at least, I have returned home and begin to prepare myself for the examinations which I have to undergo. I am afraid that the studium will require all my free time in the next two years.

With an extraordinary interest I read your information on the work prepared by you. The great disadvantage of the papers of Dr Grönblad is in the fact, that his figures are often /rather bad quality so that the criticism of the algae is sometimes impossible. I am very glad to hear that a great number of species will be published where the text and figures will be of equivalent quality.

By the side, there is one thing which would be of the permanent and great importance for the desmidiology: the exact modern drawings of specimens from different old exsiccata would confirmate some species which are till now dubious. The drawings made and published by Grönblad /as e.g. *Cl.intermedium*/, G.M.Smith /*Cl.gracile*/ etc. are not satisfactory and help in no respect to solve this problem.

Many thanks for the reprints of your papers that you have sent me during the last time. You ask me for my view on "*St.bibrachiatum*". I can you tell truly that it appealed me very much. I wrote in the present time an article on some problems of taxonomy and here I have written on your paper as follows: "Zur derselben Ansicht als ich gelangten auch Grönblad und Scott /1956/, die in einem ähnlichen Falle bei der Art *St.bibrachiatum* für die morphologisch verschiedenen* Formen weder taxonomische Termine, noch eine Benennung, sondern, den nichttaxonomischen Hilfstern "Type" in Anwendung brachten; ~~und~~ bezeichnen einzelne früher als Taxone beschriebene Typen mit römischen Ziffern, keineswegs mit Namen; die denselben zugehörigen, früher beschriebenen Taxone betrachten sie als bloße Synonyme und vereinen sie als alleinige Art *Staurastrum bibrachiatum*. Es ist ersichtlich, dass dieses Verfahren von der hier empfohlenen Weise sich nur durch einen abweichenden Termin unterscheidet, und dass "Type" im Begriffe mit "Morpha" identisch ist. Der Termin "Type", das ist "typus", hier jedoch nicht als nicht zu passend erscheint, da er schon in der Botanik in einem durchaus abweichenden Sinne benützt wird...."

* aber nicht ständigen

/As for the co-autorship of this paper: Because you are cited as coauthor it is supposed that you agree also with the whole text and are also responsible for it. But, as above mentioned, the ideas of the paper appeals me very much; are you of the different opinion?/

On the contrary, Dr Drönblads paper on the algae collected by Dr Cuvassdale comprises ideas quite different from those included in the paper on St. bibrachiatum. Grönblad takes ^{here} transitional aberrations for taxonomical units. This paper caused a discussion between Dr Grönblad and me and as a result a cited article arose, to which perhaps Dr Grönblad ~~may~~ will join his contribution.

I would publish a serie of further papers, theoretical and floristical, to which I posses material; if I had now only a few hours of free time every day!

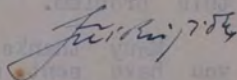
Kossinskaja and her colleagues have started to exchange the literature with foreign authors now. Some of them even answer the letters. I received also, to my surprise, the papers from her.

I congratulate you to your heroic decision owing to the your language studium. Please, do imagine that I am made to undergo an rigorous examination in this language!

This is probably the last letter which is written with help of a colleague ^{gaining} knowledge if the English language. I am afraid that the next letter will be hardly understandable to you. I would prefer to write it in German, if I should ascertain that my knowledge of English is still forgotten.

With kindest regards,

sincerely yours



June 14, 1957.

Dear friend,

it is a very long time I have written you. It was because of my having to do. It is possible I have written I had to pass some supplementary examinations. I passed four of them during the last twelve months. The examination of German language was rather easy for me but the remaining three were very difficult. I have passed the last examination just ~~only~~ now, namely from the Russian language. Eighteen months ago I did not know a word of it. Passing this examination I was not obliged only to read and to translate an algological text, but mainly I had to speak with the examiner. Happily I could speak about algological things only, so the conversation was easier for me; I have spoken something about Gonatozygaceae, about Lütkenüller's observations of the membrane of this interesting group of Algae.

You understand that this success was dear cost. I had devote all my remaining time for learning and I tried to do my best. I am very overworked now, well, not being any more youth, learning is for me in my nearly fifty years more difficult than it was in younger ones. I hope you do not take it amiss. I did not write you sooner. Besides, I have not get ~~me~~ any letter from you for a long time and I did not know who to whom owed the answer.

Now waits for me the last examination, namely Algae and Hydrobiology. Anyhow it is an interesting matter and learning shall not be so difficult for me. Nevertheless it will take all my time from the end of my holidays till January or February 1958.

I fully neglect my beloved Desmids. I hope, I shall be able to examine them in summer during my holiday. Writting of papers I had to leave, however one little paper written some time ago appeared and I hope I shall soon be able to send it to you.

During my learning I have lost those little knowledge of English that I had once. If my colleague had not help me you would hardly understand my letter.

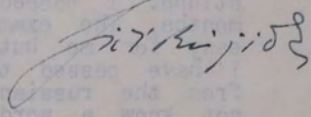
In ČSR appeared the book about Algae by prof. Dr. Fott. I made some pictures for it. I am sending one reprint to you as a "curiosity", of course, because you shall not be able to read the Czech text. The book is a highschool textbook and it has a good degree. It has far less extent than the Smith's

June 14, 1910.

Freshwater Algae. It is the first book about Algae with a good degree after a long time that appeared in this country.

I wish you pleasant holiday and I hope we shall meet again, if not in true, so at least in our letters.

Sincerely yours



...a very long time I have written you
...it is a very long time I have written you
...because of my having to do. It is possible
...some more important examinations
...of them during the last twelve
...of certain languages was rather
...the remaining three were very difficult.
...the last examination just now, namely
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...was not obliged only to read and to translate an
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...I could speak about biological
...things only, so the conversation was easier for me.
...I have spoken something about domestication, about
...Lutskanoff's observations of the reactions of this insect
...feeding group of Algae.

You understand that this success was due to
I had devoted all my remaining time for learning and
I tried to do my best. I am very overworked now, well,
not being any more young, learning is for me in my
nearly fifty years more difficult than it was in your
letter from you for a long time and I do not know
who to thank owed the answer.

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Now since for me the last examination, namely Al-
gology and cytology, indeed it is an interesting
matter and learning itself has not been so difficult for me.
Nevertheless it will take all my time from the end
of my holidays till January or January term.

I fully expect my beloved friends. I hope, I
shall be able to exchange them in summer during my
holiday. Writing of papers I had to leave, however
one little paper written some time ago, and
I hope I shall soon be able to send it to you.

During my learning I have lost some little
knowledge of English and I am sure I can do
much more for you which you would really understand my
letter.

In my opinion the book about Algae by Prof.
Dr. Jost. I made some figures for it. I am reading
one review to you as a "curiosity" of course, be-
cause you shall not be able to read the Czech text.
The book is a high school textbook and it has a good
degree. It has far less extent than the Smith's

May, 22.1956.

Dear friend,

Finally, I passed the first examination. I had to learn a language /which I have not known at all/ still a short time ago/, at least in such degree to be able to translate special algological textes, and many other things. More than four months I could not do anything else in my free time. Unfortunately, this is not the end of this affair; there are further four difficult examinations which I must undergo in the future, and I am afraid I shall not do much work in desmidiology during the next two years.

Just my last paper is published which I have had in print, but I have not yet got the separate reprints. I think I shall not have time enough to write further studies now.

Dr Grönblad sent me the first result of your common work, the paper on the variation of *Staurastrum bibrachiatum*. As this question is of a great interest of mine I hope I shall have at least the time to study fully this paper.

In this summer I want to make an excursion ^{again} into the High Tatra-mountains where I collected the last year. In this material I found a new species of *Staurastrum* and several very interesting desmids /e.g. *C. rugulosum* Messik., *C. conspersum* forma ex Huzel 1936 etc./ which have been published only sparsely till now. Nevertheless, I am interested more intensively in the studies of common species which are dubious or erroneously explicated up to date, so as *Cl. strigosum*, *Cl. peracerosum*, *Cl. littorale*, *Cl. cornu* etc. It is the time that I am missing too much!

I send you two nice memorial stamps from the musical festival "the spring of Prague" and simultaneously the best greetings and wishes of the agreeable vagances. I hope you will be kind enough to describe the impressions from your travels to me; on such way I shall visit at least indirectly those countries which I desired to see with my own eyes.

With best greetings yours

J. Křížek

May 25 1956

Dear friend Ruzicka,

Sorry that I have not been able to reply sooner to yours of April 15th. For the last three months I have been working very intensively on a paper by Scott & Grönblad describing the new desmids in the collections that I have made in southeastern USA during the last 17 years. Only two days ago I finished the last of 37 plates illustrating about 160 new taxa, and I still have a little more typewriting to be done on the Latin and English diagnoses. The paper has been accepted for publication by the Soc. Sci. Fennica, and I hope it will be printed later this year. When you get it you will be surprised at the curious and highly elaborated desmids that I have found, but even they cannot compare with the still stranger forms from the really tropical countries like Indonesia, North Australia and Central Africa, and Brazil. I have studies under way on all of these countries, but it will require some time, perhaps years, before they can reach the publication stage. It is now $3\frac{1}{2}$ years since I sent in for publication a large paper by Scott & Prescott on North Australian FW Algae, but there is still no news as to when it will be printed.

Grönblad has published a paper, which you have probably received by this time, on Desmids from the U.S. collected by Dr. Hannah Croasdale and Dr. Edwin T. Moul. This is quite separate from my own collections, and I had nothing to do with it.

Dr. Croasdale has published two papers on Desmids from Alaska. If you are not in touch with her, I suggest you write and ask for reprints. Her address is: Dept. of Zoology, Dartmouth College, Hanover, N.H., U.S.A.

Perhaps you have also seen the enclosed paper by Grönblad & Scott on *Staurastrum bibrachiatum*. If so you may cut out the plates for use in your iconothèque. I had little to do with this paper and did not want my name to appear as co-author, but Grönblad insisted on it. All I did was to supply some samples from USA and make some camera lucida drawings of his Italian specimens. What do you think of his idea of describing this species as consisting of three different forms?

From Kossinskaja I have recently received four papers on desmids, the first that I have obtained directly from her. I bought a Russian dictionary, hoping that I might be able to translate some parts of her papers, but their alphabet is so strange and confusing that I doubt whether I shall get very far with it.

That is all the news I have at present. I am glad to know that you are well, and hope that your examinations turned out successfully. With kindest regards,

Sincerely yours,

April, 15. 1956.

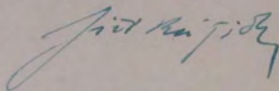
Dear friend,

I am alive and in a good condition, but I am out of humour because I am preparing myself still for several weeks for the examination of some disciplines the knowledge of which is required by me. I am conscious of the fact that I owe you the thanks and answer for your last letter., and so I send you at least this brief but cordial salutations.

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Dr. Grünwaldt's paper on desmids from your country will be published - is it, perhaps, done on the base of your drawings which you brought him? I am very inquisitive and look forwards to it!

With my best greetings
yours



Dec 24 1955

Dear friend Ruzicka,

Thanks for your letter of Dec. 2nd, and the reprint of your paper in Preslia. This paper is a very valuable one; we need many more such critical studies in order that some of the obscure desmid species and varieties may be elucidated.

You ask for a criticism of your paper, but in order to do so properly it would be necessary to be familiar with the species that you describe, but I am sorry to say that I do not know any of them. I think I have seen the specific form of *Cl. praelongum*, but not the var. *brevius*; *Cl. nilssonii* is quite unknown to me, and Krieger does not list it, except as a synonym of *Cl. intermedium*. Krieger shows *P. didymocarpum* as probably being *Cos. diplosporum*; I have seen *C. diplosporum* but it never has girdle bands such as you show for *P. didymocarpum*; the latter I have not seen. Nor have I ever found *X. Brebissonii*, or *X. aculeatum*, or *X. fasciculatum*, or any of their varieties; they seem not to occur in southeastern USA, and I have not encountered them in any of the foreign collections that I possess.

So you see that I am not in a good position to offer criticism. Nevertheless I think that your arguments are valid, and that you have adduced quite sufficient data to support them, so I am prepared to accept your classifications.

Krieger of course could not possibly be acquainted with every desmid that has been described. He did the best that he could with a tremendous task, and had to make decisions that represented his personal opinion. But opinions differ very greatly among desmidologists; there are a number of cases in which I am unable to agree with Prescott's determinations, or with Grönblad's. In a paper by Grönblad & Croasdale, now in press, he has described as *Pleurotaenium burmense* v. *extensum* the plant shown in Prescott & Scott 1942 as *Pl. coroniferum* v. *extensum*, which agrees with Krieger. But I am convinced that it should actually be *Pl. constrictum* v. *extensum*. I know this plant very well, and also I know *Pl. burmense* from Indonesia and Australia, and I have sent drawings of both of them to Grönblad to show him that there cannot possibly be any connection between them. But apparently I have failed to convince him! In my own small experience I have found several cases in which Krieger was quite definitely wrong, among which I may cite *Clost. cuspidatum* Bail., *Pl. spinulosum* Wöble, *Micr. ceratophora* Josh., *Euastrum* sp. Borge 1896 Pl. 4, Fig. 62, all of which he rejected, and *Tripl. australianum* which is really a *Pleurotaenium*. I have seen many examples of all of these, and they are perfectly good. Since I have found these errors there must be a great many more in Krieger's works; so in spite of my amateur standing I feel that I am not obliged to agree with him, or with West & West, or any of the other authorities. But I make very sure that I am right before publishing anything that goes contrary to their opinions.

I am sure that Prescott is very grateful to you for preparing the long list of desmidological literature from your country, and it will be of great help to him. Also I hope very much that your own work on Desmidiales for the Flora of GSR will be completed and published in due time. I am beginning to see some hope of the publication of my own desmids that I have been collecting for the past 18 years, which will add greatly to the list known from the USA, since I guess that there must be something like 1000 taxa in ~~the~~ the collections.

Tomorrow will be Christmas, but it does not mean much to me, just a lot of expense and unnecessary drinking. With my best regards and good wishes, sincerely,

Dec. 8, 1955.

Dear friend,

Your holiday-trip on which you had written me such an interesting letter, is really a thing to be envied. My wife who listened your letter was very anxious to be able to see those historical buildings and galleries of arts. For my own part, I should prefer to see the living nature, zoological gardens, and, especially, I should appreciate the personal contact with prominent desmidiologists which you visited. I thank you for your lively and very interesting description which amused me very much, and I lived through your trip with you - at least "in behalf".

I have been in literary connection with Prof. Prescott still for several months. For the time being, I send him at his request some 200 citations of the desmidiological literature of your country. With pleasure I shall help him in all other ways that lie in my power. To my regret, however, I cannot be unselfish conformably my heartfelt desire. I find myself in a similar situation as he is.

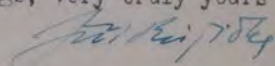
I received the proposition to elaborate the Volume "Desmidiales" for the prepared work "Flora of CSR" during the next years, and I have not got yet any collaborators to whose I could commit some more important part of the work, as is the matter with you and Prof. Prescott. According to my earlier previous estimation, there are cca 1200 taxa to be expected in our country, and you self know how untrustworthy is the contemporary taxonomy of a great part of species. Consequently, this work will be very hard. I keep for doubtful, if the Flora will be finished at all, naturally, I must work without any respect to any doubts of mine. Moreover, I can do this work only in my leisure time - and this time is growing less and less.

One of the greatest difficulties is the fact that many original diagnoses and iconotypes of dubious species are not present in the libraries of your country. For that reason I offered Prof. Prescott to send him the asked excerpts of the local literature, if he sends me as exchange the excerpts and copies of those papers which I need and which are accessible to him.

Some time ago I sent you one paper published in Preslia. If you have any critical remarks to my opinions concerning the variability and taxonomy of Desmids, I should be very glad to tell me it. Meanwhile I received on this affaire only a letter by Prof. van Oye and Prof. Heimans, who approve it. I was very glad of it, but I should like to hear also some opinion different from the mine.

We are one year older again and the Christmas is near. Please, accept my cordial wishes of all best in the Christmas and the new year for you and all your family.

With the best greetings, very truly yours



BIOLOGICAL INSTITUTE
of Czechoslovak Academy of Sciences
HYDROBIOLOGY

TŘEBOŇ, Czechoslovakia

Třeboň, 3.6.1955.

Dear friend,

First of all, I want to express my best thanks once more for the four samples of Desmids kindly sent me. Your samples from the torrid zone are beautiful and very interesting; but the last samples from Missouri are the most valuable and important for me. Although I did not find the Closteria which I needed, they contain, nevertheless, many species which occur also in our country. Some of them I have not yet found at all or only very scarcely, and thus I have an welcome occasion to make acquaintance with them. Other species I have still see but in the samples I found a little different forms, the studium of which was very instructive for me with regards to the limits of the species variability. I am in the present time very interested in these problem. Best thanks once more! If you were in the future so kind to send me again a rich sample of Desmids from the temperate zone of your country (analogous to our Central-Europe-country) I would be extraordinarily obliged to you.

Do you not know the name of the enclosed Cosmarium? It is found of your sample No Mi 25 and thus it is a species of your country. However, I am sure that I have seen it somewhere in the european literature but I cannot remember its name.

Do you put glycerine to the conservation liquid of your materials? I was afraid the sample which dried up during the transport would go out of use, but after pouring on diluted formaline the material was restituted into a perfect condition.

I received also the excellent paper on Amscottia. It is a beautiful success, indeed. I congratulate you cordially once more. One remark: on the enclosed sheed (the name correction) the number of the page of Botaniska Notiser is missed; if you know please tell me this number regard to the accidental citation.

Prof. Starr of Indiana University sent me several cultures of Desmids which are very interesting. There was also the *Closterium littorale* among them, which I have sought till now unsuccessfully for.

I wish you agreeable vagances which would make up to you for the last years accident!

With the best greetings

very truly yours

John H. S. E.

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Oct 8 1955

Dear friend Ruzicka,

Well, we returned a week ago from our European holiday, and among the large accumulation of mail I found your letter of June 3rd and the reprints of your two papers on Moravice and Mezilesni slat. Many thanks for them.

My wife had never been in Europe before, and I had not been there since 1918-19 when I was in France and England during World War I. My sisters who live in England had visited us in New Orleans in 1925, but I had not seen them since then, so as you may imagine, there was a very happy reunion.

We enjoyed the tours very much, but found them very hard work; in fact too strenuous for persons of our age and not-too-good physical condition. Trying to see the principal cities of five countries (Holland, Belgium, Switzerland, Italy and France) in 28 days is just too much. I had a suspicion of this before we started, but we shall never be able to go there again, so I determined to try it, and I am glad that we did. But we have seen so many churches, abbeys, cathedrals, castles and palaces, so many paintings, tapestries and statues, that it is literally impossible to remember all of them. However, I took more than 400 excellent colour photos which will bring back some of the scenes to us in the years to come.

Of course, one of the principal objects of the trip was to enable me to make personal acquaintance with some of the desmidiologists with whom I have been corresponding for many years. In Amsterdam Prof. J. Heimans and his wife came to see me at the airport while I was waiting for a plane to Stockholm, and we had a very interesting chat. He is 78 years old, and she is a few years younger, but they both actively interested in desmids.

In Sweden I stayed for a week in Linköping with our friend Einar Teiling, sleeping at a hotel and taking all my meals at his home, and talking for many hours each day about desmids. He has a very large library of algological literature, perhaps one of the best private libraries in existence, and an excellent desmid iconotheque. I wish that I had had more time to use it. I must confess that I have not enough knowledge of biology to comprehend his ideas about desmid evolution, and I think that some of the experts find his theories too advanced and are not ready to accept them.

In Finland I stayed for three weeks in Karis with Rolf Grönblad, again sleeping at the only hotel in the place, and taking all my meals at his house. The first thing we did was to go the University of Turku, to see Dr. Paavo Kallio who has been doing such remarkable work in the cultivation of desmids. I had a special interest in this, because I had induced my friend in Java to send Kallio some living material from Sumatra, containing the extraordinary Ichthyocercus-like desmid of which I think I sent you some photos. I was anxious for Kallio to put this desmid in cultivation, to see if we could find out the relationship between the three different forms in which it occurs and which is the "basic" form. Unfortunately the material was in poor condition when it arrived, many of the desmids were dead or dying, and the few examples of the new "Ichthyocercus" that he was able to find failed to live in culture, though some others are growing nicely.

I met several biologists (most zoologists) at the Tvärminne Biological Station, and one of them, Dr. Hans Luther, very kindly took Grönblad and me on a 2-day boat trip through the "skerries", an archipelago of small islands off the southwest

coast of Finland. Many of these islands are nothing but bare granite rock, worn smooth by ice action; others have a few trees and bushes on them. Grönblad collected from some small rock pools, but there were very few desmids and nothing of much interest. The experience was quite new to me; I had never before seen anything like these islands.

For the remainder of my stay in Karis I worked almost every day with Grönblad until 10 or 11 pm, going over my more than 3000 desmid drawings from the USA, and several hundred more from Brazil and the Sudan. In my USA material we found about 160 new taxa, which will form the subject of our next paper to be published by the Soc. Sci. Fennica. Later we shall publish those from the Sudan and Brazil, also with many new species and varieties.

I had hoped to see Prof. van Oye in Ghent, but when I telephoned there from Brussels I was unable to reach him, so I suppose he may have been away on a summer holiday. In Paris I called at the Laboratoire de Cryptogamie to see Dr. P. Bourrelly, but all the staff were at their summer biological station on the English Channel, so the only persons I saw were two of the women assistants in his office, with whom I had a very stilted conversation in my broken French and their equally broken English.

Now to answer some of the questions in your letter. It is quite true that many American desmids, though obviously belonging to well-known European species, show certain variations in size and details, frequently not enough to justify a new varietal name. West & West commented on this in their paper "On some N. Am. Desm." 1896. When the opportunity offers, I shall be glad to send you some more material from the temperate parts of the USA, which will give you an opportunity of studying such variation.

Yes, I have always added 5% glycerine in my preserved material, for the purpose of preventing complete desiccation if the water escapes. However, I think this is not enough, and in future I intend to increase it to 10% glycerine.

The reprints from Botaniska Notiser with the correction of "Scottia" to "Amscottia" do not give the page number, and I do not know it. However, I am fairly sure that it was in the last number of 1954, i.e., Heft 4.

The small *Cornasium* that you sketched in your letter occurs in slightly differing forms in many of my USA collections; at least one of these forms shows rings of pores similar to those in *C. difficile*. I am sorry that I cannot give you a definite identification, for I do not remember what disposition Grönblad made of it. All my drawings are now in his possession and I shall have to wait until he finishes working them up and returns them to me.

I have had some correspondence with Prof. Starr, and am going to send him some desmid material from this region when I go out collecting again. Last year I send some to Dr. Kallio who has been able to cultivate *Micrasterias Torreyi* and produce abnormal forms similar to those of *M. Thomasiana* v. *notata* with which he has been experimenting for years. He is much pleased with *M. Torreyi* which he finds very suitable for his experiments.

Prof. Prescott has received a grant from the National Research Council for the study of North American desmids, and he has invited me, and Dr. Hannah Crossdale, and Dr. W. E. Wade to collaborate with him. The first thing he wants to do is to bring his his list of desmid literature up to date, and he is aware that there may be many papers published in eastern Europe that he has not seen. I suggested that perhaps you might be able to compile a list of such literature published since about 1937, when Krieger's last list was printed, with particular notation of those which contain descriptions of new taxa. It would also help greatly if you could give a translation of the titles into English, French or German, because none of us knows anything about the languages of eastern Europe.

I hope that everything is going well with you, and I send you my best regards and good wishes.

Sincerely yours,

BIOLOGICAL INSTITUTE

of Czechoslovak Academy of Sciences
HYDROBIOLOGY

TŘEBŮŇ, Czechoslovakia

Dr. JIRÍ GRÖNBLAD

Třebůň, April 8th 1955.

Dear friend,

My pessimism has been once more shown as erroneous. I received in best condition your beautiful color diapositive and latter your extraordinarily interesting photos of the porpoises, your materials of Closterium as well as your letter. Best thanks for that all! The photo of the interesting Micrasterias of unlike semicells I received by Dr. Grönblad.

Your materials seem to be very interesting for me, but till now I have not had time enough to deal nearer with them. I shall write you on them in the next time. /However, one screw-fastener got free during the postage and the material was spoilt. I think that the common cork-stopper is more reliable./

Your description of the Florida-swamps and of the tame porpoises was very interesting for me, indeed; for me, an inhabitant of Central Europe. I should like see also such things once in my life!

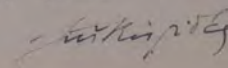
I have been in the last two months very busy with the ending of the exploration of the Desmids from two regions of our state. Finally I am ready and I made the reports and hope to have now a little time for the materials which are of the interest of mine, first of all for those, sent by you.

In our country the preparations are made for publication of the hand-books of the algology. One volume will be reserved for the Desmids and my collaboration is taken into consideration. It will be very difficult work taking a few years time. Especially there exists a great number of the names which are taxonomically quite uncertain. E.g., what is "Staurostrum polymorphum"? The opinions of the best authorities are often quite different, in the mentioned case Messikommer contra Grönblad. According to my remarks, there may be approximately 1200-1500 taxons of Desmids /incl. Mesotaeniales/ in our state and a great part of them is not reliably known. And the final effect of this many years' work is very problematic.

I sent you two little papers of mine which were published still a few months ago but the separate-reprints I have received just now. I would be very thankful you for the information of your eventually different opinions or remarks.

With the best /but delayed/ wishes to the Easter and best regards

Sincerely yours



Feb 5 1955

Dear friend Ruzicka,

I was glad to have your letter of Dec 16th, and to know that you are getting along all right.

For the Christmas holidays my wife and I went to Florida, as usual, and drove all the way down the peninsula to the southernmost point, at Cape Sable. This is in the Everglades National Park, most of which is a huge swamp, covering thousands of square miles, and most difficult to penetrate except along the very few roads that exist there. It is a highly interesting region, with many strange subtropical plants and an abundance of wild birds and animals which are strictly protected, and many of them quite tame. There you can see alligators lying on the banks of the ditches and streams, only a few metres away, and I wouldn't like to go any nearer! Along the coast are mangrove swamps in the salt and brackish water; in the freshwater parts there are some desmids, but not a very exciting assortment of species, and I seem to have collected nearly all of them. My recent gatherings all show the same species that I have seen many times before.

I regret to say that Closterium is not very well represented in my collections, partly, I suppose, because I collect principally from acid waters. Only one or two samples contain Closterium in any quantity, and those are not the species that you want. *Cl. littorale* is unknown to me, and so far as I know is not present in any of my material. *Cl. intermedium* is rare, but I have sent you a sample containing a few of them, and also three other samples with other species of Closterium. All of them have many other desmids that I think you will find of interest.

As regards the naming of my new Brazilian genus, of course Grönblad and I thought of "Scottiella", but there is already a "Scottiella", which appears to be a well-known snow alga from arctic and alpine regions. "Neoscottia" was also suggested, but I preferred "Amscottia", formed in the same way as "Entransia" which was named for E. N. Transeau, the famous authority on Oedogoniales, etc.

You do not need to return any of the photos, negatives, or diapositives that I send you. All of them are duplicates. The enclosed film shows a very interesting sight, a porpoise jumping some 3 m. out of the water to take a fish from the attendant's hand. While waiting for this show to commence, there was a boy near me, who threw a crumpled ball of paper into the water; a porpoise took the ball in his mouth and threw it back to the boy, and fairly accurately too! This occurred several times, until the ball became water-soaked and the porpoise could no longer throw it, then he tired of the game and swam away. At the same place they are now training another porpoise to pull a girl on water-skis. Amazing, eh what?

Now I am working on some astonishing desmids from the Sudan, sent to me by Grönblad. There is only one collection, but it contains some of the wierdest new species that you can possibly imagine. Two new species of *Micrasterias*, each with the remarkable feature of unlike semicells, and many other curiosities.

I am now making arrangements to go to Europe this summer, and wish that I could meet you, but I suppose it is not possible.

With my best regards and good wishes,
Your friend,

Treböň, Decembre 16th 1954.

Dear friend,

I am very sorry about your bad luck; Teiling just wrote me why you did not visit him. This year was unhappy for Desmidiologists: Fritsch and Krieger death, Messikommer in springtime very ill, Teiling operated, and your fracture... I hope that it will be all! It is a great pity, that you have lost your holidays, your European trip ~~and~~ a great part of the summer. On the other hand, I envy you the quiet time of the convalescence, I would like to broke "a little" my foot to have six weeks for my Desmids.

I would like know which will continue in the Rabenhorst-Kryptogamenflora in the Desmids after Krieger, Grönblad and Messikommer have canceled this giant-work, and I am afraid that Skuja will do it; however, he is no so good taxonomist and his desmidiological works /and the simillar thing may stand in the other Algae/ are full of faults; however, he ~~is~~ has admirable drawings.

I must ~~is~~ again congratulate you to your new discovery of the new tropic species. It seems, in the tropical countries there are many new forms which we ~~do~~ not know. Your *Cl. alga* is an admirable creature. It seems to me, it is to the genus *Ichthyocercus* in the same relation as the *Docidium* to the genus *Pleurotaenium*. For myself, I would ~~continue~~ ^{unify} these two genera in the one single. Variable apical incissions seem me not to be taxonomical important.

I am more and more attracted to the revisions of the old ~~XXXXX~~ species, which are long know but very uncertain. The *Cl. costatum* Wague was an origin, in this time I wrote anything on the *Cl. praelongum* var. *brevius* and *X. aculeatum* var. *basidentatum* and I seek the material with the *Cl. littorale* Gay and *Cl. intermedium* Ralfs. Please, have you not a material with the copious occurrence of these species?

Many thanks for your negatives with the *Scottia-Amscottia*! There may be troubles with the returning of them. /I like better the first name, it is pity of it! Or do you not like the "Scottiella"?/ I look forward to your diapositives sended to me, /if they will be delivered to me/.

Please, accept my best wishes of merry and happy Christmas and of the good and successful New Year!

Your

Nov 25 1954

Dear friend Huzicka,

The gap in our correspondence is my fault, and caused by my misfortune. A week after I wrote you on June 8th, and just three weeks before the start of our European trip, I had the bad luck to fall while walking on the street, and broke one of the bones in my ankle, and sprained the ankle joint severely. Of course, the voyage to Europe had to be abandoned for this year, for I knew it would be at least three months before I could walk again without crutches, and by that time the weather in northern Europe would be too bad and cold. Grönblad just wrote that the weather in Finland is miserable.

My wife took very good care of me while I was laid up, but it meant a lot of extra work for her, so I promised her that as soon as I was able to drive my car again I would take her on a trip somewhere, to make up for the missed European one. Two weeks ago we returned from the 30-day trip, in which I drove some 6500 km. We stayed for a week in East Lansing with Prof. Prescott, and I saw for the first time his iconograph. It is a very valuable one, but it is arranged alphabetically, which seems to me a most inconvenient system. It is fine if you want to look up a desmid whose name is known or suspected, but when you have a lot of completely strange Staurostrum, as I had, you simply have to go through the whole Staurostrum section, hoping to find a picture like the one you are trying to identify. And there are many thousands of illustrations in this one genus, so it would take several days to go through it thoroughly. But we had a very pleasant visit, and I was able to talk over a number of problems with Prescott.

We went to the Hunt Institute for Botanical Documentation on Dr. W. Randolph Taylor at the University of Michigan, and had a nice talk with him. Then we crossed into Canada, driving through Toronto to Montreal, where we called on Dr. Jules Brunel at the Institut Botanique. Frère Ireneé-Marie lives about 90 miles from Montreal, and I had expected to call on him, but the weather turned bad, with rain and snow, so I abandoned this visit, for I do not like driving under such conditions.

Then we went to Hanover, New Hampshire, where we stayed for a day with Dr. Hannah Croasdale, who does all the Latin diagnoses for Prescott and myself. Thence we went to Boston, stopping at Harvard University on the way to see Dr. Lamb, Curator of the Farlow Herbarium, where duplicates of all my collections are kept.

We had a very nice trip, seeing many places that neither of us had visited before, and we enjoyed it immensely, although the weather on the return journey was rather bad, with rain most of the way.

Yes, *Scottia* was published by Grönblad last July (Bot. Not. 1954, Häfte 2, 167-178), but it was not sooner published than someone from Switzerland (not your friend) wrote to the editor saying that the name '*Scottia*' has been used in 1829 for a genus of phanerogams. So the name had to be changed to *Amscottia*, and the correction will be published in the December issue of *Botaniska Notiser*. We have reprints of the first paper, but we shall not distribute them until we get the correction to go with them, so it will be next year before you get them. You need not return the negative, I have plenty more of them! I am not skilled in photomicrography, and I made no less than 82 photos of it, with various combinations of lenses, with red, blue, and green filters, and many varying exposures, many of them being failures. It is a very difficult subject, as you may imagine, but I am

glad to say that the four pictures published in Bot. Not. turned out fairly well.

In my last letter I told you about another new genus from Sumatra that I had discovered, and I am now enclosing a sketch from which you will see that it is a very curious beast, combining some of the features of *Eusastrum*, *Docidium* and *Ichthyocercus*, and having two unlike poles. At least that is what I thought, for the first 14 specimens that I found (and 10 seen by the collector, Tachlan) were all alike, and just as shown in my sketch. But the 25th specimen had both poles like the upper pole of the sketch, which completely changed the situation. Of course I knew then that there must be another form, with both poles of what I call the 'fishtail' type, like the lower pole of the sketch, and I started looking for it. After a long and tiresome search I finally found it. So now we have the impossible situation of a new genus to describe and publish, with two different forms but only one specimen of each, while we have 24 specimens which show a dichotypical combination of the two forms. The only thing we can do is to wait until more material is available, from which we can perhaps determine which of the two forms to describe as the type-species, and the other one as a variety. I hope to get the additional material from Sumatra sometime next Spring.

No doubt you have heard of the very sudden and unexpected death of Dr. W. Krieger, also of Prof. F. E. Fritsch. Krieger's death is a severe loss to desmidiologists throughout the world, and it will be very difficult to find anyone to complete his monograph. Is there anyone in your country who is capable of doing it? Just two weeks before he dies, Krieger wrote me, giving his opinion on the new desmid from Sumatra, of which I had sent him some specimens on a slide, and he agreed that it would have to be described as a new genus.

I shall be glad to receive the paper by you and Prof. Karel Rosa on the new variety of *Cl. costatum*. In my own collections from southern USA I have found two or three forms of this plant, and it is possible that one of them may agree with your var. nov.

I hope that everything is going well with you, and I send you my best regards and good wishes.

Your friend

Třeboň, November 16th 1954

Dear friend,

a new gap exists in our correspondence. Did not a letter disappear again? Last times, I obtained your letter of June, 9 and answered it on July, 6th. I thanked in that letter for the sending of the negative of your admirable *Scottia* and asked you if I had to send it immediately back or if it was time enough.

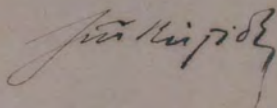
As far I know, your *Scottia* was published in the meantime by Dr Grönblad, but I have not received up to date the separatum. It is a great success of yours, and I congratulate you very cordially once more.

How did you spend the summer? I expected in vain a card of your visit of the European desmidiologists. Did not you give up your trip?

During the summer, I was hardly one week at home. I collected algological materials and made desmidiological investigations of two reservations; I shall do a few treatises on the collected materials from them. In the present time, prof. Rosa and I sent you a little paper on *Closterium costatum* var. nov.

With my best greetings and good wishes

Your very sincerely



June 9 1954

Dear friend Ruzicka,

Thanks for your letter of May 12. The paper on *Microsterias* has not arrived, but no doubt it will come shortly.

Many thanks also for your congratulatory remarks on *Scottia mira*. Everyone who has seen it has noticed the resemblance to an insect or animal of some kind, and it is really the most extraordinary desmid that I have ever seen. The reason I did not describe it myself is because I had promised to collaborate with Dr. Grönblad on all the Brazilian collections, in one of which this desmid was found, and also for the reason that I did not feel competent to discuss the unprecedented problem presented by the differing semicells. As a matter of fact, Grönblad has enlisted the help of Dr. Paavo Kallio, University of Turku, who has written a supplement to the descriptive paper, in which he discusses the questions of morphological changes in desmids caused by various agencies, such as heat, light, centrifugation, etc., as developed in the cultural experiments conducted by himself and Prof. Waris, and he has attempted to show a possible cause of the unlike semicells in *Scottia*. Unfortunately there is nothing definite that can be said at the present, and the question will remain in the realm of speculation until such time as living specimens can be obtained, and cultivated, and subjected to varying experimental conditions. At present there seems little chance of this being done, for the habitat is a remote region that is very seldom visited by biologists.

I gladly give you permission to show pictures of *Scottia* to the Prague Botanical Society, and I am enclosing some 35 mm negatives which may be of help. However, I must ask you not to do this until after formal publication is made, since such a procedure would not be correct. The printer's proof has just been returned to *Botaniska Notiser*, so I suppose the paper may be published in July or August. No doubt Grönblad will send you a reprint, and then you will have my drawings which give a clearer picture of the plant and the details of its structure.

Just a week ago I discovered, in material from Sumatra, another desmid, which I think will require a new genus, since it possesses a combination of characters that preclude its assignment to any existing genus, in my opinion. And although it is totally different from *Scottia*, it has the strange character of semicells that are unlike. I am not going to say any more about it until I receive opinions from Prescott, Grönblad and Krieger, to whom I am sending specimens and drawings. But it seems an almost incredible coincidence that an amateur like myself should by lucky enough to discover, not only two new genera in the space of eight months, but two possessing a characteristic that has never before been heard of in the Desmidiaceae.

My wife and I are busy getting ready for our trip, and four weeks from today we shall arrive in England!

With my best regards and good wishes,

Your friend

Třeboň, 12th May 1954

Dear friend,

I congratulate you very cordially to your splendid success. Your wonderful new Desmid is really "mira". It resemble more a sea-spider than a Desmid. It seems to be a transitional species between Staurostrum and Triploceras (?). However, why did you not describe it yourself? The sent photo is very good, it may be impossible to made a better photo of such a thick object. With your permission I ~~indee~~ intend to project your photo as a curiosity by a lecture on Desmids which I have to read in the Botanical Society at Prague, when I have time enough to write it, probably in autumn.

To my regret, I did not received your letter of January. The box with the tropical Desmids was handed by ~~sa~~ the post only in April, I thank you very much. However, I looked only one sample by this time (there are wonderful thinks there!), I have in summer no time for microscoping. In a month I rest only 7-10 days at home. I look forward to the autumn and winter with the tranquil work ~~at~~ the table.

I sent you the book on the Gonatozygales etc. as a curiosity and not for using, I cannot procure you anything else. I do not know the authors address and eventhough I should know it, it would be of no use for you. Did you notice the names of forms in this book? E.g. *Cylindrocystis Brebissonii* f. minor (W.et G.S. West) nov.comb. = var. minor W.et G.S. West ?

I envy you your beautiful planes for the summer. That was my ardent wish, to visite the best desmidiologists and gather the experiences. There is one very important work, which I would do with pleasure: to look through the original materials from the old authors: Brébisson, Ralfs, Gay etc. and draw the unclear species with all the details (apex, membrane etc.). It is a lot of the Desmids which are quite unclear, often the very habitual species: *Cl.intermedium*, *gracile*, *tumidulum*, *St.dejectum*, *apiculatum*, *polymorphum*, *alternans*, *dispar*, *dilatatum* etc. etc. from which exist no reliable drawing in the literature. As far as some of them was redrawn in the moderne time (e.g. *St.polymorphum* and *Cl.intermedium* by Grönblad, *Cl.gracile* by G.M.Smith), the drawings are very primitive, insufficient and without details.

I ~~xxxxxx~~ send you a copy of a little paper with some *Micrasterias*. If you possess it, please, send you to Dr. Irene-Marie in my name!

I remain with the best greetings
your very truly

J. V. Kříž

Mch 13 1953

Dear friend Ruzicka,

Last night I was searching one of my collections for a certain Xanthidium on which Dr. Grönblad had requested me to get additional information. I did not find the Xanthidium, which appears to be extremely rare, but I did run across two very interesting, - but different, - cases of the phenomenon that you described recently, desmid cells enclosed in a transparent membrane.

The enclosed sketches, which I made especially for you, show in the first case 1½ cells of E. hypochondrum fa. prominens Presc. & Scott, and in the second case four cells of three different species, which are listed on the sketch.

I don't know what you will think of these instances. Evidently they are not caused by any genetic forces, and perhaps I was not so crazy after all when I suggested that the desmids might have been swallowed by some animal, and then evacuated after passing through the digestive organs.

You are quite welcome to publish these sketches; in fact I made them especially for that purpose.

Sincerely yours,

Dec 13 1951

Dr. Jiri Ruzicka,
Central Biological Institute,
Dept. of Hydrobiology,
Sedlice u Blatne. Czechoslovakia.

Dear Dr. Rusicka,

I am very glad to hear from you again, and to know that once more you are working in your favourite field of algology, also that our friend Mr. Lhotsky is at the same Institute.

My wife and I have just returned from a three weeks trip by airplane through Central America, visiting Guatemala, El Salvador, Costa Rica, Panama, and Colombia, and your letter was among the large accumulation of mail that awaited our return. We had a wonderful time in these countries that I have always wanted to see, but we were glad to get back home again. I made some collections in various places, but the conditions were not favorable for desmids, so I got very few of them.

In the early part of this year my health was not good, owing to another attack of gall-bladder infection, but this has now cleared up and I am feeling all right again. I have done considerable work on desmids this year, and have completed 21 plates of desmid illustrations for a paper on North Australian desmids from Arnhem Land, which are now being checked by Prof. Prescott to confirm my determinations, or identification of those that I could not name. Also I have completed another paper on Euastrum, which should be published very soon in the Dutch journal "Hydrobiologia". Another paper on South Australian desmids will be published next year by the Royal Society of South Australia. And still another paper on "Micrasterias" was accepted more than a year ago by the American Microscopical Society, but their journal is about two years late in publishing, so it will not be printed until some time in 1952.

I have also been working on a lot of samples from Sumatra, Java, and Borneo, which contain some of the most elaborately formed and decorated desmids that I have ever seen or heard of, including several new species and many new varieties.

Today I have written by airmail to A. Asher & Co., in Amsterdam, asking them to write and tell you which of the works that you mentioned are still available. When you get their letter, write them at once and tell them which of the works you want, without regard to the price, and Asher will send them to you. Do not worry about the cost; I am glad that I am able to buy some presents for my friends.

Also I have instructed the publishers to send you a copy of Prescott's new book, "Algae of the Western Great Lakes Area", which you will find very useful for identification of all fresh-water algae except desmids and diatoms. These are not included, and when you get the book you will understand that they were omitted because there was no room for them.

G. MM. Smith has published a 2nd. edition of his "F.W. Algae of the U.S." but there is not much change from the 1st edition; the desmids are exactly the same, even the old illustrations were used.

I shall ask Prescott to send you a copy of the Bibliographia Desmidiacearum if there are any available. I saw the proof of this when I was in New York a couple of years ago, and I made several hundred corrections of errors in spelling and typography, but there are many still left. The citations prepared by Dr. Brunel are generally correct, but Prescott is not very strong in the spelling of German and the Scandinavian languages.

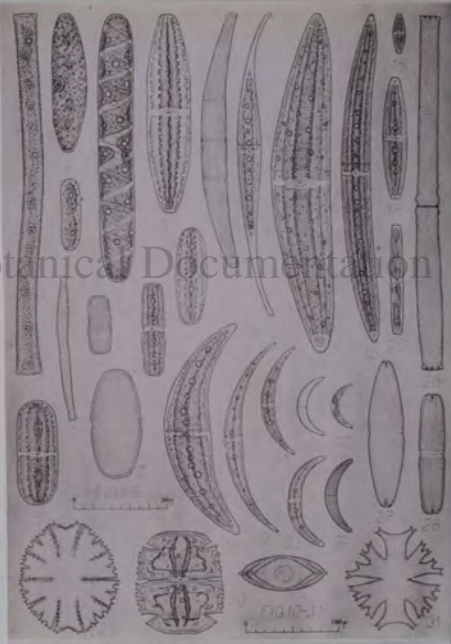
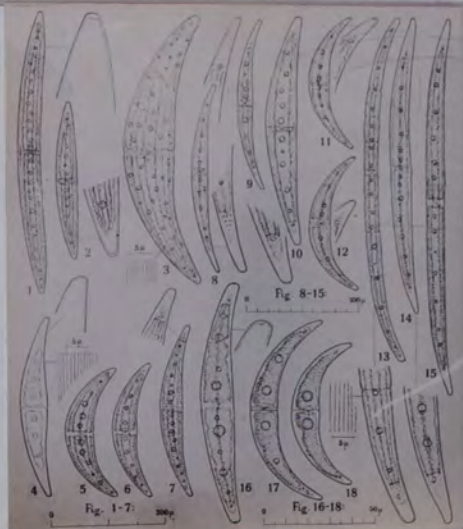
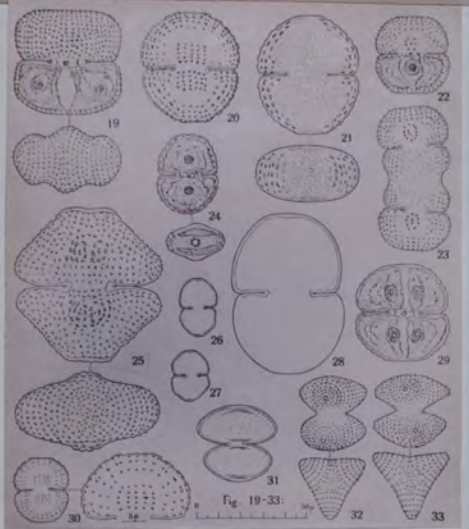
There is no great loss in the fact that you did not receive the sodium CMC which I used for temporary mounts for desmids. Apparently it is not as valuable as I thought. I sent samples to several algologists, but have not received a report from any of them. Its advantage, it seemed to me, lay in the fact that it has a lower index of refraction than glycerine, but it can be made of any desired viscosity, much higher than glycerine, which is frequently desirable in the manipulation of desmid specimens for drawing or photographing.

Thanks for the reprint of your paper "Tri vsechni Cosmaria". The photographic illustrations are remarkably good, but I am sorry that I cannot read the paper because it is in Czech. May I suggest that, if possible, you add a short resume in another language, English, French, or German. Your papers in Czech could then be understood by many more algologists, very few of whom are familiar with your language.

With my best regards and good wishes,

Sincerely yours,

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Digitized by Hunt Institute for Botanical Documentation



March, 31 1954

Dear friend,

a long time I received no letter from you. Were you not ill? Did you receive my letter of November, 25th and my paper on *Cosmarium obtusatum*?

These days I received the new paper of yours with your (beautiful as usually) drawings and with a copy ~~from~~ for my *Iconotheca*. Best thanks! Last months, I also have written and drawn, in the present time I have four little things in print, but I do not know the time, when they will appear. At last, I send you the photos of some my plates. I drew also the plates of Desmids for a manual of Algology, these days I finished the first plate (*Gonatozygon - Microsterias*, the photo is enclosed).

Some weeks ago, I have sent you a ~~thing~~ paper on *Gonatozygaceae* and *Mesotaeniaceae*, I wonder very much if you will receive it.

Just today, I received an acknowledgement from the custom-office, that a packet "containing the freshwater sea-weed" (!) will be delivered to my hands. I look forward to it and thank you very cordially!

With my best greetings and good wishes,

Yours very sincerely

Třeboň, November 25 1953

Dear friend,

In the last month my whole existence got changed. I had to follow our Institute to Třeboň and changed my moderne quarters in Písek for a flat in Třeboň, in an old house; I have no bath-room, no garden, no moderne appointments etc.etc., that all I offered to my Desmids. My new private address is: J.R., Rožmberská 58, Třeboň, ČSR.

There was a great work to get ready for the moving the thousands of things, samples of algological materials, all specimens of my collections. And there is a very greater work to put my new quarters in the state capable of inhabiting. One whole month I have done every morning and every evening all handcrafts; by no means you cannot imagine that all. It may last at least one or two months yet, before we shall have the order in our flat.

In that time, I have leave all my not-official work, also the correspondance. I read with a great pleasure your cordial letter, however, I had no little while to reply, I am very sorry.

I thank you very much for your flattering appreciation of my drawings, however, I cannot accept it in the verbal text. My drawings are not bad and, if you like, they are better than some 50-75% of the published desmids-illustrations, however, it remains much to desire. *Cosmarium ochthodes* is a very difficult species for drawing and I know no really good picture of it, my last drawings not excepting. Concerning the text I have no possibility to publish it in a difficult arrangement, I was very glad that at least the second summary was admitted.

How you have read, I keep the "*C.ochthodes sensu W.et G.S. West*" (Monographia) for incorrect and for the reason of numerous errors in the determining. The var. *amoebum* is by my opinion very near to the right "*C.ochthodes typus sensu Nordst.suppl.Lütkem.*" By my opinion, the 50% of the determinations of "*C.ochthodes typus*" may be in fact the "*C.hornavanense var. dubovianum* (Lütk.) Růžička" or "*var. janoviense* ~~Nordst~~ (Gutw.) Růžička" 1949, but on account of the none or bad drawings of this species there is impossible to prove it. That all I try to demonstrate in my paper.

In this time, I have sent you my new paper on *C.obtusatum*. I used your kind permission and published your drawing of the specimen of your country, the Prescott's one from Iowa is very primitive. I regret very much, that the text is also scarcely intelligible. I hoped, I will be able to publishe it as my *C.hornavanense*.

If you will be kind enough to send me some interesting desmidiological materials I will be very enjoyed. Naturally, I shall never work in the tropical Desmids; I possess very interesting materials of ČSR, which I cannot publish on account of the went of time. However, I find it very pleasant and agreeable to look at the beautiful forms of my dear Desmids from exotic countries. You have already sent me a desmidiological "box of treasures" how I call it. If you are in possession of some rich materials from the temperate zone, I will be very grateful of it. In such a material I should find the species on which I work, for exemple in this time *C.subochthodes Schmidle*, *C.botrytis var. mediolaeva W.West* and *C.cymatopleurum var. tiolicum Nordst.* are of a great interest of mine.

I thank you also for the Transactions, I find them very interesting, however, the last number lies in my library not read up to date.

With my best greetings and good wishes,

Yours very sincerely

Apl 10 1954

Dear friend Ruzicka,

Apparently you have not received my letter of Jan 20th, in which I acknowledged receipt of yours of Nov 25th, and also your paper on *C. obtusatum*. I complimented you on your drawings, which are excellent, and thanked you for using my sketch of this plant. Also I remarked, as I think I have done before, that I am astonished that you can find the patience to work so assiduously on a group of *Cosmaria* with such obscure characteristics. At least they appear obscure to me, though I suppose the differences between the various forms are quite clear to you.

In my Jan 20th letter I told you that I do not have any desmid collections from temperate zones, only my own from the sub-tropical region in southeastern USA, and numerous samples from really tropical countries like North Australia, Brazil, and Indonesia. The box that I sent you contains an assortment of samples from those three countries. In them you will find many desmids that you will recognize from the descriptions by West & West, Krieger, Joshua, Borge, Nordstedt, and others, and in addition there will be many that you will not recognize at all, for they are new species.

I thank you very heartily for sending me Kossinskaja's book. When it arrived I did not know who had sent it, for it bore the imprint of the Entomological Society, and I do not know anyone connected with that Society. But I had a strong suspicion that you were responsible for sending it. It will be a very valuable book for those who understand Russian, but for those, like me, who have no knowledge of that language, its only value will lie in the illustrations. If you can give me Kossinskaja's address I shall be glad to send her some of my papers. Is she to be addressed as Miss or Mrs.?

In my January letter I gave you some big news, - that I have discovered a new genus of desmids from Brazil, and I sent you a sketch of it. Unfortunately I have no more sketches available at the moment, for I sent all of them to Grönblad, who is going to publish it in *Botaniska Notiser*, under the name of *Scottia mira*. Enclosed are a couple of photos, not very good, but about the best that can be made with my 35 mm camera. You will recognize the great difficulty of photographing such an object, which is about 180 μ long, and 150 μ wide, with processes; it is impossible to get all the processes focussed sharply at one time. The plant differs from all desmids hitherto known, because its two semicells are not alike, and it is not a freak nor a teratological form, for all the specimens that I have seen are all constructed in the same way. I am sorry that I cannot send you any specimens; the original quantity that I received was minute, and after sending samples to Prescott, Teiling, Grönblad, and Krieger, I have very little left. All four authorities agree that a new genus is required for the plant.

The photos of your new plates show that your drawings are really excellent; they are among the best that I have ever seen, and I congratulate you sincerely on them. I shall be very much interested in seeing your new papers, and hope that you will have a German resume so that I can understand them.

My large paper on North Australian algae will not be published until next year, it appears; the latest information is that the printer's proofs will be ready about the end of 1954. They seem to work even slower in Australia than they do in this country, and that is saying a lot.

This summer my wife and I are going to England to visit my sisters, and I shall continue alone to Sweden to call on Lektor Teiling, and to Finland where I shall stay with Dr. Grönblad for about 10 days. Perhaps I may also visit Dr. Krieger. I wish it might be possible for me to see you, but I suppose that is not possible. We shall be in Paris during the first week in September, and shall probably stay at the Hotel Florida, 12 rue Malesherbes, near the Opera.

Herzliche Grusse, and ~~my~~ best wishes from your friend

Sent to Ruzicka Feb 17/54
Uruguay Atlantida 2, 4.
Las Toscas,
#337. 338. 339.
North Australia A30, A50, A108, A109, A111.
X100. 501.

Tasmania 119. 127

Sumatra 109

Singapore 602

Java P. T. 501

Borneo 270. 402

Panama 4. 9

Sept 27 1953

Dr. Jiri Ruzicka,
Biological Institute, Hydrobiology,
Trebou, CSR.

Dear friend Ruzicka,

I am sorry that you had to send me a postcard to remind me that I owed you a letter, and also an acknowledgement of your last paper. This neglect is really shameful, but I hope that you will graciously accept my apologies.

The paper on *Cosmarium ochthodes* seems to be a very good one, though of course I cannot read Czech, and my knowledge of German is not good enough to enable me to follow your arguments, without actually translating the German into English and writing it out, and I must confess that I do not have sufficient interest in *C. ochthodes* or its relatives to undertake this task. In fact, I find it difficult to understand how you can find the patience to work so assiduously on such an obscure and difficult group of desmids as *C. obtusatum*, *C. hornavanense*, and *C. ochthodes*. I do not recall ever having seen *C. ochthodes*, but if I ever run across it I shall be sure to send you some of the material.

But I can and do appreciate your drawings very much; they are really beautiful. You have succeeded admirably in depicting the wall sculpturing, in a manner that is far superior to any other drawings that I have seen of these species. And I know from experience just how difficult this is. Please accept my congratulations on these wonderful drawings.

To keep up my interest in desmids, I require a continuing supply of new material containing desmids that I have not seen before; if there are new species or varieties, so much the better. For a number of years I have been endeavouring, through correspondence, to obtain desmid material from distant parts of the world which I cannot visit myself, and now I have succeeded. For instance, Sachlan is sending me some new collections from Borneo, in addition to the 30 or more on which I have been working for the last couple of years. I have just received five tubes of material from North and Central Australia, and there are fourteen more on the way to me. From Brazil I have 31 bottles, many of them devoid of desmids, but the others more than compensate for the deficiency, for they contain some very rare and curious species, including many of those described by Grönblad in his Brazilian paper. So you see that I have enough desmids to last me for several years. Would you like me to send you some of this tropical material? I should be happy to do so, and you would see some truly extraordinary forms, like *Streptonema trilobatum*, *Micrasteria anomala*, *M. Noebii*, *M. ceratophora*, *M. lutea*, *Euastrum praemorsum*, *E. divergens*, *E. substellatum*, *E. asperum*, *E. turgidum*; all these are from Indonesia. From Australia there are: *Euastrum pulcherrimum* fa., *Xanthidium multicornis*, *X. sansibarense*, *Triploceras gracile* var. *elegans*, *Staurostrum sagittarium*, *St. sexangulare* in several forms, *St. Rosei*, *Phymatodiscis irregularis*. From Brazil I have *Gymnozyga armata*, *Spondylosium desmidiiforme*, *St. arthrodesmiforme*, *St. Boergesenii*, *St. brasiliense*, *St. Ginzbergeri*, *St. penicilliferum*, *Arthrodesmus longispinus*, *Xanthidium regulare*, etc., etc., etc. And in all these these collections there are many species and varieties that are unknown to me, probably a number of them are new to science. What do you say? May I send them to you?

With my best regards and good wishes,
Sincerely your friend,

Arvidson is no alologist
Cedercreutz, Carl Dr. - Bärngangsgatan 7B, Hälsingfors.
Cedergren Gösta R.Dr., Skelleftea, Sweden
Cosandey F.Dr.Prof., Inst.Botanique, Lausanne, Suisse
Fjerdingstad, E., cand.mag. Vangeleddet 51, Virum pr Lyngby, Danmark
Fritsch, F.E., Prof., Botany School, Cambridge, England
Fott, Boh.Dr., Benátská 2, Praha II., CSR /please, send him your works,
if you can spare them!/
Häyrén, E., Prof., Mannerheimvägen 33, Hälsingfors
Huber-Pestalozzi, G.Dr., 61 Engl.Viertel, Zürich VII., Switzerland
Minoru Hirano, Dr., Dept.of Botany, Faculty of Science, Kyoto, Japan
Kuffenrath, H., Prof., 20 rue Joseph II, Bruxelles, Belgique
Lundberg, F.Dr., Osby, Sweden
Margelef, R.Prof., Calle Encarnation 68, Barcelona, Espagne
Manguin, E., Prof., Laboratoire de Crypt., rue de Buffon 66, Paris V^e
Printz, H., Prof., Lantbrukshgskolen, Vollebakk, Norwege
Ström-K., Prof., Botaniska Institutet, Besata--Uppsala, Sweden
Shang-Hao Ley, Prof., Institut de botany, Academia Sinica, 320 YoYang
road, Shanghai 18, China
Skuja H., Prof., Botaniska Institutet, Uppsala, Sweden
Ström, K.M., Prof., Universitet, Blindern pr Oslo, Norwege
Wurtz, A.Dr., Station Centrale d'Hydrobiologie. Le Paraclet par Bowes
/Somme/ France
Wennberg, Gösta, Byggmastargatan 11A, Lund, Sweden
Voronichin N.N., Leningrad, Karpovka 19, Kvart.48 - SSSR

July, 21 1953

Dear friend,

Last weeks there was a great chaos in our Institute; we change our residence. Please, notice my new address (since tomorrow): J.R., Biological Institute, Dept. of Hydrobiology, Třebon, CSR (my habitation remains: Zeyerova 1343, Pisek, ~~in~~ CSR). Because the work with the removal of the Institute I was not able to write you till now.

Třebon is an old, medieval town in the South Bohemian pond bench. Its German name, Wittingau, is often cited in the Lütkemüller's works; he collected very much in its environment and published in "Zur Kenntnis der Desmidiaceen Böhmens", 1910. However, the character of these beautiful and numerous ponds is totally changed now; they are not acid as they were in Lütkemüller's times, but through the intensive manuring and liming they are alcalic and eutroph, and the desmidial flora of them may be now very poor.

I have to thank you cordially for the plates of Desmids illustration which you were kind enough to send me. As I had you written I possess the photocopies of the belonging papers, however, I was not able to obtain the plates, and so the papers were useless for me till now. Especially the Gutwinski is very important for me. Best thanks also for the periodical; I hope I shall have some repose at this time to look it troughly.

I am very glad knowing that the short paper of Kossinskaja was of an interest for you. I intend to try to send you a more voluminous work of mine (the combination of the genera *Enium*, *Closterium*, *Pleurotaenium*, *Tetmemorus* after Krieger's fashion), but I do not know if it will be permitted.

Thank you very much, however, I possess the Fritsch & Rich "Freswater Algae of Africa, 13." in my library, Prof. Fritsch sent me it some time ago. Have you the *Staurastrum echinatum* by Heimans? I received it by Prof. Heimans in original, therefore my phostat-copy is at your disposal.

I am not obstinate in the Amoebae. However, I ~~my~~ never heard that the indigestible rests may be enclosed in the transparent membrane in the digestive organs of Vertebrata; why may they do it? We must wait for new observations.

Till the end of July I will be very busy with the fitting and organisation of the new building of our Institute in Třebon. Since August 1st. I will have two weeks of vacation; this year we must stay at home in Pisek. And since August 15th I shall set again to my work.

After two years I bid adieu a Sedlice; please, wish me every good in Třebon!

Sincerely yours

J. R. 1953

April, 19th 1953

Dear friend,

Your drawings are extremely interesting. I thank you very cordially. I am sure you are right, two different different phenomenon, or better there phenomenon. In animal organismus as a reason of the is surrounded of the first case the transparent membrane body? and the contents are ~~some~~ several /rest algae / I have observed Cosmarium, Staurostrum, Euglenae and Diatoms/. The other phenomenon: the membran very regular without a rest of the animal corpus and I have never observed an opening in it /however, there may exist some opening/; the contents: 1-4 Desmids of the greater size of the single species /as far as I know/. Some two weeks ago I have sent you ~~the~~ Printed matter/ the photocoopies of these two cases.

The interpretation of the first case may be not difficult; it is an animal /amoeba?/ which has swallowed the little algae and which has been spoiled in the formal. The second phenomenon is more interesting. I cannot find the probable explanation. How Messikommer has written me, we have to ~~wait~~ expect a lucky chance. However, it is necessary to look at the ~~the~~ fresh material, not fixed.

Your communication is very value for me, therefore you - wholly independent - gain the same opinion then I.

and have sent you ~~the~~ photocoopies of the B.C. I myself can do. However, I can order the film-negatives by the University-Library and try ~~me~~ to made the positives for you. The other photocopy /2 plates and the list of the diagnosis/ are from: F.E. Fritsch: A General Consideration of the Algal Flora of Ceylon /Proc. Roy. Soc. London, Ser. B., LXXIX: 197-254, figs. 1-4 / an ecological treatise*.

In this time it begins the time of ~~the~~ excursions. The next month I will be only 2-3 days at home. It is very interesting to sample the materials with Desmids and other Algae in the beautiful country, but very fatiguesfull, too. The quiet time of the winter microscoping is over.

With my best wishes, Sincerely yours

Fritsch

June 7 1953

Dear friend Ruzicka,

The reason you have not heard from me for such a long time is that I have been trying to get the four plates of desmid illustrations that you asked for. This has required the writing of several letters, waiting for the answers, and then waiting for the copies. But they finally arrived, and I sent them to you yesterday by ordinary mail. The plates from W. West and F. Wölle I obtained from the Library of the Dept. of Agriculture in Washington; ~~those~~ those from Gutwinski came from the Farlow Reference Library at Harvard University.

I thank you very much for the several photocopies that you have sent me; - the paper of Kossinskaja with its nice illustrations of rare desmids, particularly *M. mahabulashwarensis* var. *Wallichii* which I think is a remarkable "find" in such a cold climate, since it originally came from India and I have found it in Borneo material. Also I thank you for the small copies from Fritsch's work on Algae of Ceylon, which fit in very nicely with several other old papers that Prof. Fritsch sent me recently. By the way, I have two copies of Fritsch & Rich: Contributions towards knowledge of the Freshwater Algae of Africa. 13. Algae from the Belfast Pan, Transvaal. 1937. If you do not possess this I shall gladly send you one of them.

Also I thank you for the copies of two plates from W. & W. "F.W. Algae of Ceylon". However, please do not go any further with this; while I was ordering your plates from Washington I took the opportunity of ordering a complete copy of this paper, both text and plates. This Ceylon paper is a highly important one for me, because I have found in the Indonesian material that I am now working on, many rare and curious desmids that were originally described in W. & W.'s paper, such as *St. tauphorum*, *St. saltans*, *St. columbetyloides*, *St. ceylanicum*, and such rarities as *Desmidium bengalicum* and *Phymatodocis irregularis*.

Your microphotos of desmids enclosed in a transparent membrane are very good and clear, but I cannot help thinking that your supposition that they are the remains of amoebae is not correct. To my way of thinking it seems more likely that they are the dejections of much larger animals, such as tadpoles, frogs, or small fishes. Irene-Marie ("Flore desmidiale de la region de Montreal") has described his finds of large numbers and many species of desmids in the stomachs of these animals.

With my best regards and good wishes,

Sincerely yours,

Please, can you procure me also some photocopies? There are ~~xxxxxx~~ four plates :
Bulletin of the Torr.Bot. Club, IX, pl. 13 (Wohle, F., 1832, Freshwater algae VI.)
Journal of Botany, XXIX (1891), pl. 315 (W. West, 1891, The Freshwater Algae of Maine)
Sprawozdanie Komisji Fizyograficznej, Kraków, Tom XXX (1895) pls. 2, 3
(Gutwinski, Flora Głonów okolic Tarnopola,)

I have copies of the three works but I have not been able to get the copies of the plates. I hope, you can get easy the first one (by Wolle), the others I add only in every case.

"Miss" Věra Růžičková (of 10 years) thanks very much for your kind proposal, but it is not possible in this time, she must wait a little. She was pleased of your works, the children lose often patience if they do not see immediately results of their work; your hearty words are the first result of her learning of the languages.

With my best regards

yours

12.3.1953.

Dear friend,

your letter was very interesting. Some weeks ago I have written to Messikommer, the Desmids in the envelope may be result of a swallowing of an animal; he has acknowledged the probability of this supposition. I had an other idea than you: the envelope may be a rest of the animal which has plasmolysed in formol; for exemple it may be a maw or a pellicula. But what kind of organismus can swallow the great Desmids? The Amoebae have no organ with a firm membran for augh I know and they rests in formol have an other appearance. They may be rotifers how you write, or Ciliata. Only a lucky observation may solve this problem. The reason of my spare paper was to call one attention of the interesting phenomenon, in Czech was added a respective appeal, and I see, it was a good idea.

Also your observation on the Amoebae is very interesting. I am very curious of the article in Transactions.

This days I received the second correcture of my new article on Cosmarium ochthodes. I hope it may appear in one or two months. I should be very grateful for some critical worts or - at least - for the communication of a different opinion, it is the best way for the author to come up.

I thank you cordially for the sending of your separata. Your new work on Euastrum confirms again my opinion you have no competition in the desmidiaceae. It is a great pity to lose up some of your beautiful papers for an iconotheca!

The thing with my Iconotheca makes a very slow progress, I have so little time. Since Decembre I arranged in it the both Monographs by West and by Krieger as a "base", and the works by Messikommer and Krieger. In this time I elaborate the G.M. Smith 1924 to be better familiar with the longiradiata Staurastra. I find this work very instructive and also very agreeable for a fatigue man; my Iconotheca even though in a rudimentary state rends me very good services, but I am afraid I shall complete it many years.

If you are anxious to get the West's Ceylon, I can ^{well be} glad help you; I can order the film-negativs of the desmidiological part of this work and made the copies for you likewise the other works. Please, let me know if I may do so. However, 1) it will take a long time; I get the negatives only just in 2-3 months and I ~~will~~ shall have little time for the copying in ~~the~~ summer; 2) I am afraid the very fine lithographical drawings will be not good reproduced.

I have sent you the lacking 3 plates of the Gutwinski's paper, please, stick them in my copy of this work.

If you can spare the copy of the Bernard's work, I shall be very grateful for it. His Desmids are not good, but his Chlorophyta may be very better; I do not posses this work. The Chlorophyta are still my worst foible; for the Euglenophyta I have got good monographical works - Pochmann, Deflandre, Conrad etc., for the other groups the Huber, Pestalozzi, for which I cannot be sufficiently thankful to you.

Feb 15 1953

Dear friend Ruzicka,

Again I have to thank you for the photocopy, this time of Gutwinski's paper on Algae collected by Dr. Raciborski in Java in 1899. This is a valuable addition to my small collection of papers on desmids from the Far East.

Also I have received the copy of your paper on the phenomenon of desmid cells enclosed in a transparent envelope. From time to time I have observed similar occurrences, and have wondered what was their cause. Since I could find no mention in the literature, and since no reasonable explanation occurred to me, I simply classed them mentally as ~~simply~~ another of the many, many inexplicable things that I see under the microscope, and I made no record of them. In the future I shall make sketches when I see them again. As far as I remember now, the only genus involved was *Cosmarium*, and I am sure that I have seen one cell enclosed in the membrane, and also two cells, but I do not remember whether I ever came across three or four cells enclosed. I had a vague idea, probably incorrect but not entirely impossible, that these desmids might have been swallowed by some aquatic animal and then expelled through the cloaca after being enclosed in the membrane while in the animal's intestinal tract! C'est a rire, n'est-ce-pas?

On two occasions I have seen rotifers that had ingested desmids. In one case there were four cells of *Closterium costatum* var. *Westii* inside the animal, and the desmids were about two-thirds as long as the animal. In the other case a large, soft-bodied rotifer, about 500 microns long, had swallowed 43 small desmids, which were moving about in the animal's interior, in unison with the movements of the internal organs. The rotifer was so large that apparently it was crushed by the cover-glass, and was in a dying condition. While I watched it, the desmids were expelled through the cloaca in groups of 5 or 6 or 8 cells, and thus I was able to count them which otherwise I could not have done, since in the rotifer's stomach they were in a large mass. I made a rough sketch of the rotifer, from which an expert might have been able to identify it, and sent it to Prescott, asking him to try to find someone who might be interested, but he was unable to do so. The sketch is somewhere in my records, but I cannot put my hands on it just now. Also I identified the desmids, which were mostly *Cosmaria*, but I remember very clearly that one of them was *Staurastrum quadrispinatum* with exceptionally long spines, possibly a new var. or fa., of which several cells had been swallowed. Yet I have seen it stated somewhere that spines on desmids were probably developed as a means of protection against animals!

Here's another curious phenomenon. A jar containing algal material had been standing on my table for several days, and developed a large population of amoebae, probably *A. vulgaris*. The peculiar thing is that all the amoebae contained crystals, moving inside the animal with the movements of the cytoplasm. The crystals varied greatly in size, from perhaps 2 microns long to 16 microns, and each amoeba contained from 5 or 6 large ones to literally hundreds of small ones. The crystals were of a reddish-brown color, partially translucent, and all of the same shape, - truncate bipyramids on a square base, with an included angle between the base and the sides of about 73°. I tried to interest the chief biologist of one of our State departments and he tried some other biologists, but again nobody was interested. All I can find out about them is the bare statement in one of my books that crystals are known to occur in amoebae; no explanation of the cause, nor of their composition. In the last issue of the *Trans. Am. Microsc. Soc.*, which I sent to you last week, there is a mention of blue crystals in amoebae, but again no explanation. When you receive this book notice an article on the composition of the blood in certain fishes, containing a table of some hundreds of measurements of blood corpuscles, given to .01 micron, or 1/50 of the wave-length of visible light!!!!

December 7th 1952

Dear friend,

I have received your kind letter, your beautiful work on *Micrasterias* and your interesting *Cosmarium*. Many thanks! I intend no flattering but there is no doubt, you are the best drawer of the *Desmids* by this time, or, at least, I do not know the better one. You see, I have wrote you a long time ago: also amateurs can do a substantial piece of work. For me, the *Desmids* have procured me my new profession which I love. For you, the results of your collaboration with Grönblad may be of fundamental importance for the whole *Desmidiology*, just wait a little.

I am afraid, my bad expressing in English was the cause of a misunderstanding. In my last letter, I had no intention to complain of my troubles with the copies for you. Besides, they were very little: I have worked in the other thing and once or twice in one hour I have went to our bath-room /- my dark-room/ to change the negative and the paper in my magnifying-apparatus. In fact, I had a mind to apologize my slow and gradual sending of the copies which you wanted very badly how you had written.

I see, my familiarity with the *Desmids* is still insufficient. There is not possible to remember thousands of forms or to know which of the hundreds of works contains the form which I have just found. Therefore I have opened the compilation in the fashion of an *Iconotheca*, at the beginning only of the European forms. It will be a very hard work which will take in all my free time and also my winter-leave, however, the result may be worth the labour.

I have got the Gzwiniski's *De algis a dre Raciborski... collectis, 1902*. Today, I am doing the copies for you and for me. The Hardy's *Freshwater-algae* are not in CSR-libraries. I look for the *Woloszynska*, but I have not found it up to this day. The Bernard's *Protococcaceae*, Krieger's *Sunda* and West's *Ceylon* are in the Botanical Institute in Prague, but they are too extensive works for the copying.

With my best wishes for a Merry Christmas and Happy New Year,

Yours sincerely

Dear Sir,

I like your beautiful stamps, thank you very much.

Yours sincerely
Vera Růžicková

October, 7 th 1952

Dear friend,

last months, I sent you the following copies :
Joshua 1835: Burmense Desmidiaceae, Schmidle: 1895c, Einige Algen aus Sumatra
Sumatra, 1896c, Süßwasser-algen aus Australien, 1901a, Algen aus
Brasilien, Raciborski 1892: Desmidia zebrana..., G.S.West, 1909a,
Algae of Yen Yean, W. et G.S.West, 1897a, Desmids from Singapore,
and at last, on the 25th September, W. et G.S.West, Freshwater-
Algae from Burma. I hope, you have duly received or you
will receive that all in good time, please, let me know.

The Joshua 1835, On some new and rare Desmidiaceae, may
follow, but this little work is in CSR only by Botanical
Institute in Prague and the copying-apparatus of this Insti-
tute is out of order last half year - that is why I am
out of patience, it may take a long time.

I am very sorry that I was not able to send you
the copies earlier, but I had very little time in summer
and the copying takes very much time; the exposition of one
leaf takes 20-60 minutes in accordance with the intensity of
the current, which is very fluctuating. For instance, I made
the West's Algae from Burma the whole three Sundays. My paper
is very good for such a work (eventhough it is of several
years old), but I have troubles with the chemicals and with
the fluctuation of the current and I spoil a great number
of the copies, - also a great loss of time.

This time I am copying the borrowed Lake Erie by Taft.
I thank you very cordial for your effort, but Taft clearly
wants nothing to do with me (and I cannot blame him for that)
The drawings of Taft are not bad, but he draws the species
with a more complicated cell-wall sculpture (*C. ochthodes*, *C. sub-
ochthodes*) too stylised, they cannot be recognised from such a
drawing.

I hope to publish my paper on *Cosmarium obtusatum* in
1953 (Czech with a summary in Russian and German). In my
holidays in half August I wrote a shorter treatise on *C.
ochthodes* which was accepted right away in the next Numero of
"Presslia"; however, the copies (if I shall receive any
ones; I sent you the "self-help copies" of my two little
things with the West.) may appear in 1953.

You write, many of the determination of Irene-Marie
may be erroneous. There is necessary to have a enormous know-
ledge of the literature for such a work or a very extensive
"Iconotheca". I think, Dr. Irene-Marie is rather short of the
literature. Besides, the best desmidiologists (also Grönblad)
make numerous errors in their floristical papers. That's just
why I avoid such work up to present time.

You cannot find Sedlice on your maps, it is a too
little town (or a larger willage, how you want). It is
situated south-east of Blatná, north-west of Písek. In the next
year we have to change our place, alas!

Thank you, my family is (thank God) in good healths and in
relativ not bad circumstances. In summer, I gathered the algo-
logical materials in the various regions of our country and
was very little at home. I have to work it up in the
winter. Thank you I am very good armed for this work, only
the Chlorophyceae are still my foible.

Oct 25 1952

Dear friend Ruzicka,

At last I have finished the paper on North Australian desmids and shall mail it tomorrow to Australia, where it will be published next year, I hope. For the last three months I have been working on it every minute of my spare time, and that is the reason I am so far behind in my correspondence, not only with you, but with all my other friends.

I have received all of the photocopies that you sent me, including the last two, the papers on Algae from Burma, and from the Yan Yean Reservoir by West & West. These came just in time to enable to make some slight corrections in the Australian paper. For instance, there was a small *Cosmarium* which I had identified as *C. tjiibenongense* Gutw., though it was considerably smaller than described by Gutwinski. After receiving your photocopy of West's Yan Yean paper I found that he had described fa. minor, which agrees better in size with my specimens. Prescott wanted to describe this little *Cosmarium* as an angular variety of *C. contractum*, and I had a hard time persuading him to accept my identification. In fact I had arguments with him on quite a number of these Australian desmids. In some cases I was able to convince him, and in other cases I was obliged to defer to his views. But compromises of this nature are necessary, I suppose, in papers with joint authorship, especially when there are such radical differences of opinion among desmidiologists. And in the case of collections containing so many new and rare desmids, which no living person has seen before, except perhaps in the illustrations of papers published half a century or more ago, it is frequently very difficult to decide whether a given plant is identical with a rather poor picture such as these old authors used to draw.

I thank you most heartily for the trouble and expense that you went to in having these copies made for me. They have already been of considerable help, and will be of even more assistance in the future, because I have quite a number of collections from the Far East to work on in the next few years.

I think I told you that Dr. Rolf Grönblad ~~is~~ has very graciously consented to collaborate with me in working up the desmids from my gatherings in southern USA, because Prof. Prescott is so busy with many other things that he cannot possibly get the time to do it. I sent Grönblad more than 3000 drawings and over 500 samples of material, which will keep him busy for some time. Already he has sent me a number of his drawings of the genus *Arthrodesmus*, which I am to compare with my own drawings, and then tell him my opinion as to their identity; so this will be my next job.

From your directions I found Sedlice on my map of Czechoslovakia, and am glad to see that it is not far from Pisek, so that undoubtedly you can go home and visit your family once in a while. Also I hope that both you and they will remain in good health and spirits.

The German resumes of your papers on *C. schthodes* var. *obtusatum*, and on the desmids aus dem Teiche Rezabinec, are interesting and the illustrations are beautifully drawn. I wish that I could read the complete papers.

With my best regards and good wishes,
Yours sincerely,

Aug 10 1952

Dear friend Ruzicka,

The reason why I have not written you for a long time is that I have been very busy with the manuscript of a new paper on Freshwater Algae from Arnhem Land, in North Australia, by Prescott and myself. The rough copy is now finished and I have sent it off to Prescott for his criticism and revisions, also for a final decision on certain species of desmids concerning which I cannot agree with his determinations. This will be a large paper, with 22 plates of desmids and 6 plates of other algae, and it will be published next year by the Government of Australia in the botanical volume of the official report on the Arnhem Land Expedition. I have spent the greater part of two years on this work, in the examination of the material and making drawings, then identifying them (or trying to do so). Prescott has checked my determinations, and has written descriptions for the new species, of which there are many, but the work of assembling the paper in its final shape has fallen on me, and I am not very well equipped for this part of the job, because I do not have the bibliographical resources that are necessary for verifying references, etc.

That is where the papers that you have sent me have been very useful, particularly Joshua's "Burmese Desmidiaceae", from which I was able to determine three desmids that I was unable to find anywhere else. I thank you most heartily for the trouble you went to in copying them for me. And if you are able to make copies of West's "Algae from Burma" and "Algae of the Yan Yeen Reservoir", I shall appreciate it very highly, since I have some more Australian collections that I hope to work up at some future date.

After I get this Australian paper off my hands, I intend to go to work on the material from Borneo, Java and Sumatra that Mr. Sachlen sent me a couple of years ago. This is extremely rich, with many of the most elaborately decorated desmids that you could possibly imagine. Already I have seen most of those which Krieger illustrates in his "Sunda" paper, and a great many more besides. I have more than 300 drawings already, and I have worked on it only occasionally. Enclosed are drawings of two varieties of *Micrasterias Torreyi*, one of which is shown in Krieger's "Desmidiaceae Europas"; the other is new. Are they not beautiful?

Irene-Marie's paper in "Hydrobiologia" is a very good one, and as you say his drawings show considerably improvement over those in his first work. He is finding in Canada a great many of the same desmids that I have found in southern USA, which seems remarkable, considering the 2500 km distance between the regions, the difference in geology, and the large difference in climate. I suppose you have noticed the large number of errors in ~~the~~ spelling of the specific names; I think this must be blamed on the author, not the printer. And many of his determinations are questionable; in fact Grönblad has written me a long list of Irene-Marie's identifications which he thinks are erroneous. But of course there will always be disagreement between desmidiologists.

I am very glad to hear that you are well and satisfied with your work; I hope that your family is in good health and circumstances also. I cannot find Sedlice on my map; how far is it from Prague and Pisek, and in what direction?

With my best regards and wishes,

Yours sincerely,

There are some forms and variations of *C. obtusatum* described in the literature; three of them I have excluded, because they are evidently another species. The variations and the excluded forms are drawn on the tables IV. and V.

Personally, I do not like to form new variations. I presume that our present conception of "species" is very oldfashioned. The most Desmidiaceae are very variable. As far as we know only a few samples, we can suppose that there is one type and some variations. No sooner than our knowledges of the species get better, we find out that there exist really no confines between the single "variations". To my opinion, the future desmidiologists will unite the variations and not augment them. It does not concern the cases of ours, where the separate forms differ in taxonomically remarkable signs and are heritadly constant. In this case is the forming of the variations fully proved.

I look forward to your promised studies. Our Institute received No 1-2 of *Hydrobiologia* containing a nice work by Irene-Marie. His drawings are still better, there is perceptible a great progress since the time of ~~Desm.~~ *Flore desmidiale de la région de Montréal!* We have no further numeros of *Hydrobiologia*.

Certainly you mind, my English get very better; but I used the kindness of my friend who translated my letter.

Personally I am well and satisfied with my task. Even that is the best, what we can demand of this life.

Wishing you the same I am sincerelly

yours

J. J. J. J.

July, 28th

Dear friend,

I was very pleased, when I read that you have received the copies of the papers I have sent you. The mistake which happened with the work by Joshua was caused by the uncorrect Krieger's catalogue of the literature. According to this catalogue the work was published in Journal of Botany, Vol.XX. So I have got the copy of Joshua's paper out of the Vol.XX, but I did not revise its title. After having received your letter I have found that the paper you wished to have was really published in the Vol.23. Now I am going to make a right copy in Botanical Institute in Prague after holidays for you, and so for me, I do not know it.

Some time ago I sent you two further copies, i.e. Joshua's *Burmense Desmidiaceae* and West's *Desmids* from Singapore. I hope, you will get them in order, please, let me know.

At the present summer time I have very much to do with excursions. I like them, but they take all my time one quarter of a year running. But I shall find a while in autumn to go on in the setting the promised copies. I prepared the West's Algae from Burma and Algae of Yen Yan Reservoir for copying. And Kaciborskis *Desm.*

I have got even a better developer, so I hope the copies will be perhaps better than those I sent you originally.

I thank you very hardly for the two exemplars of Transactions; it is a very interesting and nice publication, I am very pleased.

My best thanks for your kind appreciation of my drawings. I was very much glad of it, but what can one do, when the drawings lie in the drawer? I intend to publish it, even though in Czech.

As to your question: All forms described on the tables I, III concern only *Cosmarium obtusatum typicum* /exclusively one of *C. hornavanense* var. *dubovianum*/. In the variability of the shape I cannot find out the definite confines between the nearly round forms and the longish ones. Therefore I do not discriminate them at all. As to the sculpture I distinguish the form *perornata* Messik. and the form *aequalis* f. nov. /vide tab. II. and IV./ The former is characterised by the decaying of the verrucae in view perpendicular to their base into groups of 4-6 secondary granula /like my *C. hornavanense* forma *ochthodeiformis*/. The verrucae of the latter form are totally or nearly totally reduced, so that remain only the secondary granula. But the differences between the type and both forms are very gradual; I am convinced that there are no taxonomically significant sings and therefore, no separate variations.

May 13 1952

Dear friend Ruzicka,

I now have to acknowledge the receipt of the two lots of desmid-papers that you sent me, for all of which I extend my hearty thanks. Though some of them are minor works, it is important for me to have everything that I can obtain on tropical desmids, especially those from Indonesia. Therefore I shall be very happy to get a copy of Joshua's Burmese Desmids, if you are able to get the negative from Prague. By the way, you made a slight mistake and sent me Joshua's Notes on British Desmidiaceae 1882, instead of his New and Rare Desmidiaceae 1885 that you said you were sending.

Recently I got copies of both of Bernard's works from Bogor (Buitenzorg), but as you say, they are unreliable. Nevertheless I have to consult them carefully, and try to ascertain what he ~~was~~ drew and described, because the material that I am now working on comes from the very region in which he collected. Fortunately I possess full-size photos of the plates of Krieger's Sunda paper, and smaller copies of the text. Also I have the excellent paper by Skuja 1949, Zur Südwasseralfgenflora Birmas, but I am finding many, many species and varieties that are not shown in any work at my disposal.

Yes, I received Woloszynska's excellent paper on fossil desmids, but did not know that you had requested her to send it. I wrote her a long letter, congratulating her on the wonderfully clear photos that even show the pore-patterns of the cell-wall, and asking her what method she used for preparing the specimens. I never got a reply, and am very sorry to learn that she is dead.

The photos of your five plates of drawings of *C. obtusatum* and varieties are excellent, and I don't think your drawings could be surpassed for clearness of detail. But I wish I had a list of names to accompany the plates. It seems to me that while you can distinguish between all these various forms, it will be very difficult for anyone else to do so, unless they are willing to spend as much time on the study of this one species as you have. I have a similar problem with *Microsterias radiata*, which with its varieties is very common in southern USA. I can distinguish nearly a dozen different forms, of which I show about 8 named varieties in a new paper that will be published about the end of this year.

You ask if I am familiar with the long-processed *Staurostrum*. I regret to say that I am not, and that there seems to be considerable confusion between the ideas of various authors, particularly as regards the bi-radiate forms. And to add to the confusion I have discovered a lot of new ones, which I am quite unable to name. Grönblad is now working up my collections and drawings, and we hope to publish a paper on New Desmids from Southern USA, perhaps in 1953, to be followed by a larger paper that will describe and illustrate all of my USA desmids except the genera *Microsterias* and *Euastrum* which have been worked up by Prescott. There ought to be a paper on *Euastrum* in the next issue of the Dutch journal *Hydrobiologia*; if the Central Biological Inst. receives this journal you may see the paper before I do. I returned the corrected proof to Prof. van Oye more than six months ago.

Dr. Elster sent me a paper in response to the chain letter, and attached a card saying that he had received the letter through you and somebody else. He is with some hydrobiological institute in Germany, but I have not kept his address. The paper was of no value to me, so I sent it, with several others, to a friend in Australia.

Dr. Teft's address is: Dept. of Botany, MAHIE Ohio State University, Columbus, Ohio. I have asked him to send you his paper on Lake Erie. If you do not receive it soon, write him again.

With best regards and good wishes, Sincerely,

Sealice, April 11th. 1952.

Dear friend, you see I tried to be useful for you, even though only in minimis, and photocopied four little treatises for you: Joshua: Some new and rare Desmids, Schmidle: Einige Algen aus Sumatra, Schmidle: Süswasser-algen aus Australien and Schmidle: Algen aus Brasilien.

However, there is much to be desired. The copying-apparatus in the Botanical Institute is old with a great light-dispersion, and the copies are not white and black, but greyish and grey. In spite of all that I am sending them to you /under another envelope as Printed Matter/. By my opinion the treatises are worthless or of very little worth for you and I suppose you will look at my copies and will not want to buy the works.

The Joshua: Burmense Desmids, Raciborski, Desmidiya zebrane...., West: Desmids from Singapore and West: F-W Algae of Yan Yean are in the National Library in Prague. I ordered the negative on Leica of the Joshua: B.D. by the Library. If it will be good, I will made a good positive-copy for you and will order also the negatives of the other cited works.

Very good works are: West: F-W Algae of Ceylon and F-W Algae from Burma, and Krieger: Sunda-Expedition, but they are too extensive and the West's drawings are too fine for the copying. These works you should buy in original especially the Krieger's one.

I do not know the treatises by Gutwinski 1902, Hardy 1905 and Woloszynska 1912. The Bernard book I have for not valuable, there are numerous errors and mistakes in it. I copied it partially by the type-writer some years ago, but it was a useless work.

Naturally, I will keep my eyes for all the works.

In the way of the Chaine I obtained the papers only from three Zoologists. And who is Dr. Elster? I do not know him.

I tried some media for the studying of Desmids, i.e. Methylcellulose and Polyvinylalkohol, but no liquid medium is valuable. Each thick medium is unceasingly in a slow motion and the Desmids go along. The best liquid medium is the water or formol. Perhaps a gelatinous medium may be better for that purpose.

On account of the bad weater I work only on Desmids up to the present time. Do you know good the Staurastras with long processes? The West-Carter is worthless for the determination of them. I carried off the first price in a competition in Prague for my microphoto of Micrasterias rotata.

Did you obtain the work De desmidiaceis fossilibus... 1950 by Woloszynska? I asked her at the end of 1950 she would send it to you, but she died nearly after that.

March 1 1952

My dear friend Ruzicks,

It makes me very happy to know that the books by Prescott and Huber-Pestalozzi will be of such great value to you, and will perhaps enable you to hold your position more securely. Yes, I can readily imagine myself in your place; for while I have a fairly good knowledge of American desmids and am now getting acquainted with the tropical species from Australia and Indonesia, I know very little about the other fresh-water algae and diatoms. Frequently I find curious algae, and diatoms of strange shapes, that I would like to identify. Prescott's book will help with some of them, but the diatoms require a special set of literature to themselves, and the only diatom work of any value that I possess is von Schönfeldt's *Diatomeace Germaniae*.

Do not worry about the cost of the books; I can easily afford it. Perhaps a time will come when you can repay me, and at that time you can tell me what you have been doing during the last year or more, which I should very much like to know. There is one thing you might be able to do for me. Please keep your eyes open for any of the following works on desmids, and if you see them listed in any of the bookseller's catalogues, write them immediately to send them to me, and I will pay for them direct. Recently our friend Teiling wrote me that Wepf & Co., of Basel, Switzerland, listed two works that I wanted, Krieger's *Sunda Expedition*, and Bernard's *Algues unicellulaires d'eau douce* (1909). I wrote immediately by airmail, and have just received Bernard's work, but Krieger's had already been sold. Here is a list of some that I want, with the dates as shown in Krieger's monograph:

- Bernard, Ch. 1908. *Protococcaceae*
- Gutwinski, R. 1902. *De Algis a Dr. M. Raciborski*
- Hardy, A.D. 1905/6. *Freshwater Algae of Victoria*.
- Joshua, W. 1885. Some new and rare Desmidiaceae.
1886. Bermese Desmidiaceae.
- Krieger, W. 1932. *Sunda Expedition*.
- Raciborski, M. 1892. *Desmidiyja zebrahe przez Dr. E. Cistonia*.....
- Schmidle, W. 1895c. *Einige Algen aus Sumatra*.
1895c. *Süßwasser-algen aus Australien*.
1901a. *Algen aus Brasilien*.
- West, G.S. 1909a. *Algae of the Yan Yean Reservoir*.
- West, W. & G.S. 1897a. *Desmids from Singapore*.
1902b. *Freshwater algae of Ceylon*.
1907. *Freshwater algae from Burma*.
- Woloszynska, J. 1912. *Phytoplankton einiger Javanischer Seen*.

The chain letter is not working very well; undoubtedly it has been broken somewhere. So far I have received one work from Brazil, four papers from one biologist in Italy, one from Belgium, and your friend Dr. H. J. Klster writes that he has sent one, but it has not yet arrived. Perhaps you will have had some responses by this time.

Mit den besten Grüßen und Wünschen,

Ergebenst

23.2.52.

Dear Sir,

I do not know how I should thank you. Some days ago I received the Prescott's Algae and in this days the Huber-Pestalozzi's Phytoplankton. The books of them are splendid works, far greater, far more comprehensive and evidently far dearer than I supposed. I am afraid that I misused very much your extraordinary kindness. I hope I will be able to repay at least a part of my great debt at some other time. I thank you with all my heart.

I was engaged to the Institute as an assistant for phytoplankton. You may imagine yourself in my place. I worked 10 years in the Desmids but it was not worth speaking of my knowledge of the other Algae. It was lucky that I took up my post in autumn. In the winter I treated some desmidiological materials and I got a good position for my accurate drawings "ad naturam", not stylised, and for my tenacity by the working - no wonder, in the course of the years I made use only my rest-time for the same work!

I apprehended of the spring, since will open the work on the ponds. I learned in the mornings and at dusk the Algology /your Smith, the only moderne work that I had, was very inestimable for me/, therefore I earned a certain theoretic base, but I knew I will stand helpless before the task to determine Algae from the simplest sample of the plankton. There is no literature for determination here and there is impossible to borrow it from the capital for the longer time. I expected also that it will turn out bad with my employment.

Now I need not worry about this reason. The books are fully sufficient for all my purposes and what is lacking in the one /for example Chlorophyta and Euglenophyta in the Huber-Pestalozzi, Bacillariophyta in the Prescott/ that contains the other book. I will have the books day by day in my hands and you may believe I will remember you with a sincere gratefulness.

I am very happy by my work in the Institute, but it is not only the matter of my satisfaction, but also of the existence of all my family; I will tell you the details at some other time. That is the right reason of the great importance of your books for me. Even though I express my gratefulness in unskill words, I hope you will distinguish the sincere sentiment behind them.

Now, one does not get the copies of the published treatises. Therefore I shall send you the whole number of the "Botanické Listy" with my /very little/ treatise

"C.ochthodes var. obtusatum Cutw.", if I shall be able to receive buy it. I gave my longer treatise "C.obtusatum" into the drawer, although it is complementely finished; at least I shall send you the photos of my plates. On the plates 1. and 2. are my own drawings /only the first figure is a original drawing of Schmidle and the opposite one you may know, I believe/. On the plates 3-5 are repro- ductions from the literature; on the pls.4. and 5. are variations, and excluded forms, and some other species for the comparison. The text may be not bad, I hope. Along I shall send you very few desmidiological papers which I got in the last time. If you do not need some of them please send it to Dr. Irene-Marie.

Had you success with the Chaîne? By us was it not broked but, as far as I know, it passed of 5/6 from the botany to the Zoology. I received not any one paper /I expected nothing, indeed/, but I do not under- value the moral effect.

I remain your grateful

Handwritten signature

Digitized by Hunt Institute for Botanical Documentation

Now I need not worry about this reason. The books are fully sufficient for all my purposes and what is lacking in the one /for example Chromogae and Eugleno- phyte in the Huber-Pestalozzi, Bacillariophyta in the Prescott/ that contains the other book. I will have the books day by day in my hands and you may believe I will remember you with a sincere friendliness.

I am very happy of my work in the Institute, but it is not only the matter of my satisfaction, but also of the existence of all my family. I will tell you the details at some other time. That is the right reason of the great importance of your books for me. Even though I express my friendliness in unskill words, I hope you will distinguish the sincere sentiment behind them.

Now, one does not get the copies of the published treatises. Therefore I shall send you the whole number of the "Botanische Mittheilung" with my /very little/ treatise

Sedlice, November 26th. 1951.

Dear Sir,

I am happy to be able to write you - from the Biological Institute - after a long time. In time past it was very difficult for me, you know. Since some weeks, I work at Central Biological Institute in Sedlice u Blatné /I live continually in Písek/ and I am very happy to ~~can~~ be able to work in the algology; for such a work I desire since my time of youth. In this time, my young friend Lhotsky works at the same institute.

Are you well, you and your family? What do you work in Desmidiology? I received your letter of May 13 1950, but I was no able to reply at that time. You was said to send me a medium for preparing of Desmids, but I do not receive it.

In this time, I work ^{out} ~~at~~ the Desmids in the Institute, it is not a difficult job for me; I own a little but a sufficient desmidiological library.

On the same time I am engaged in Phytoplankton; I have to learn and learn, to get a sufficient knowledge of this matter, but I am very hard up for the literature of Plankton. The "Algae" by Smith, you was kind enough to send me, is a very precious book for me, but it is in English and is not useful for a determination of species, as the "Kryptogamflora für Anfänger" by Lindau-Melchior only, but it is a very insufficient and incorrect work, for students.

Therefore, I want to ask you a favour; can you be so very kind and buy for me a book for determination of the species of algae /especially planctonic-algae/, in Germany /not in English/, at the price of /highestly/ the ten dollars or of the rest of them? I do not thing the book of Huber-Pestalozzi, it may be too dear, but in the latest catalogue of fa. ~~Archer~~ and Co, 365 *Asher* Herengracht, Amsterdam, are ~~some~~ convenient works. e.g.: Süßwasserflora Mitteleuropas 1913: Nr.1096: Pascher, Chlorophyceae, or 1098 Hustedt: Bacillariophyta, or 1099: Pascher, Heterokontae, or 1100: Geitler, Cyanophyceae. Or Nr.1009, Migula, Algen, but there is not a very correct work. /In the same catalogue are desmidiological works, e.g. Nr.881 Delponte, Specimen Desmidiacearum subalpinarum - it may be a work for your library?/ But if it is difficult for you, please, do not mind my desire, I would not wish to trouble you too much!

I saw the "Bibliographia Desmidiacearum" by Dr. Prescott and Dr. Brunel at Botanical Institute in Prague. It is a precious work, but there are errors in the citations of the European literature. I sent any supplements and corrections /for the most part with regard to the literature of this country/ and I would be able to

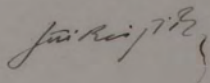
many
send further ones. /I sent them to Dr. Brunel/. Please,
can you to question Dr. Prescott on occasion, if he
may send me a copy of this work? /I want do not
want to write him now, it would be too often, you
know/. If--yea Some time ago, he promised me ixts sending.

If you or Dr. Prescott will write me, please,
do it on the address: Dr. J.R., Central Biological
Institute, dept. of hydrobiology, Sedlice u Blatne, CSR.

I thank you very sincerely for your greetings,
which I received from Dr. Messikommer. If I will stay
at this work, I look forward to a continuation of
an algological correspondence; but I am afraid I
forgot all my English grammary, you have not to lose
patience!

With my best wishes /for the Christmas season,
too/ and regards

Sincerely yours



Sedlice, Jan. 7th., 1952.

Dear Sir,

very moved, I thank you for your unusual kindness. Clearly, you understand very good how important for me and for my family is ~~to work~~ my employment in the Institute. However, a good work on Phytoplankton depends on the good determining literature, of which I do not dispose. If I may use of your great condescension I shall order the Huber-Pestalozzi's Phytoplankton instead of the Pascher's Süßwasserflora or of Migula/it will be a book like created for my work/ and from Süßwasserflora one volume, the Hustedt's Bacillariophyta, it is a irreparable handbook. Today, I received a letter from the Ascher's, my desiderata are on stock and may be sent to me. Many, many thanks! I asked the Ascher's, to let you know the price before the sending.

I heard much admiration of the new book by Prescott, but I do not see it. It must be a inestimable work, too. I hope, I shall have an occasion to tell you sometimes later how important matter is for me to dispose of a reliable determining works by my work in the Institute.

Some dies ago, I received unexpeated the Bibliographia Desmidiacearum from Dr. B. nel. If I shall receive it from Dr. Prescott, too, I will it transfer to the conscientious Czech desmidiolog prof. Rosa. It is a work deserving respect, but full of inaccurate citations; I compared ca 200 citations with the literature, and I found circa 100 citations incorret, little mistakes but not nice: "Stevens" instead of "Stephens", "Daurprapart" instead of "Dauerpreparat" etc. Evidently, the authors had not regard to the bibliographia in the Nordstedt's Index Desmidiacearum; it is a conscientious work.

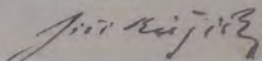
I am very happy to hear that you and your family are well and you succeed in the desmidiological works. I wish you very sincerely every joy with it, for the new year and in general for the next time! I look forward to the 2plates of your beautifull drawings!

My little paper "Tři včední Cosmaria" gives informations between three similar species of Cosmarium. The Botanické Listy does not publish the longer Summary, the little Summary by the paper is incorred, from the editor gived. Next time, my new very little paper "C. ochthodes var. obtusatum GUTW." may be published also in Bot. Listy. I compiled a little Summary myself, but it will not be published; therefore, I shall add a Summary in German written on the typewriter. If there will be any Summary from the editor, you will not comprehend it, you will see.

I thank you for your chaine. I sended a copy of my "C. hornavanense" ~~di~~ to Dr. Silva. There is necessary to have a bit of humour for the matter, but the humour is a very rara avis in terris. I am very curious of the result.

With my best thanks, best wishes, and best remembrances

very truly of yours



of the lists of prices or prospects of old smos vav you if
biological, botanical or zoological literature, which you
want, please, be so kind and send them on the address of
the Botanical Institute. We want them for the comple-
ment of the bibliographic.

Dear Sir,

very moved, I thank you for your unusual kindness.
Clearly, you understand very good how important for me and
for my family is to work my employment in the Institute.
However, a good work on Physiologia depends on the good
determining literature, of which I do not dispose. If I may
use of your great condensation I shall order the Haber-
schlozer's Physiologia instead of the Fischer's Stüben-
schriften or of Misul. It will be a work like created for
my work and from Stüben one volume, the Haber-
Bailliarphyta, it is a irreplaceable handbook. Today, I recei-
ed a letter from the Acher's, my desiderata are on stock
and may be sent to me. Many, many thanks! I asked the
Acher's, to let you know the price before the sending.

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but I do not see it. It must be a inestimable work, too.
I hope, I shall have an occasion to tell you sometimes later
how important matter is for me to dispose of a reliable
determining works by my work in the Institute.

Some days ago, I received unexpected the Bibliotheca
Demidoviana from Dr. Bumel. If I shall receive it from
Dr. Prescott, too, I will it transfer to the conscientious
Czech demidolog prof. Rosa. It is a work deserving respect,
but full of inaccurate citations; I compared ca 200 citations
with the literature, and I found circa 100 citations incorrect.
Little mistakes but not nice: "Stevens" instead of "Stephens",
"Lepidoptera" instead of "Lepidoptera", etc. Evidently, the author
has not regard to the conscientious work.

I am very happy to hear that you and your family are
well and you succeed in the demidological work. I wish you
very sincerely every joy with it for the new year and in
General for the next time! I look forward to the Stüben
of your beautiful drawings!

My little paper "Tri vědní Gomaria" gives informations
between three similar species of Gomarium. The Botanické listy
does not published the longer Summary, the little Summary by the
paper is incorporated, from the editor gives. Next time, my new
very little paper "Cochlododes var. optatum GUTW." may be
published also in Bot. listy. I compiled a little Summary my-
self, but it will not be published; therefore, I shall add a
Summary in German written on the typewriter. If there will
be any Summary from the editor, you will not comprehend it,
you will see.

I thank you for your chain. I send a copy of my
"Cochlododes" to Dr. Silva. There is necessary to have
a bit of humor for the matter, but the humor is a very
rare vein in terms. I am very curious of the result.

With my best thanks, best wishes, and best remembrances

very truly of yours

Handwritten signature

Pisek, am 11 September 1948

Sehr geehrter Herr Scott,

Heute schreibe ich Ihnen deutsch. Ich verstehe gut (mit dem Wörterbuch) ihren englischen Briefen, aber das englische Schreiben macht mit noch grosse Schwierigkeiten, und meine Französische Sprache ist nicht besser.

Schade, dass Sie meine Fotokopien nicht ausnützen können. Es sind darin gute Behandlungen. Das Fotokopieren ist manchmal die einzige Möglichkeit, sich die ältere Literatur zu besorgen, und die Kenntnis der alten Literatur ist für einen Desmidiologen sehr wichtig, wie Sie auch wissen. Der übliche Preis für 1 Seite der Fotokopie ist bei uns auch ca. 10¢ (Format A 5). Ich verfertige mir aber alles selbst, so dass mir eine Seite nur auf ca. 4 - 5¢ kommt.

Sie haben aber ~~zwar~~ schöne Bücher in Ihrer Bibliothek! West's Monographie soll jetzt ~~einige~~ hundert \$ kosten, und Krieger-Rabenhorst ist bei uns keinesfalls zu kaufen. Ich habe sonach das Krieger's Buch fast Wort nach Wort abgeschrieben, resp. die Abbildungen fotokopiert. Es was dazu natürlich die lange Zeit nötig. Ich bin üblich sehr beschäftigt und der Desmidiologie kann ich nur die freien Abende widmen. Diese und noch manche anderen Vorbereitungsarbeiten haben mir die ganze 5-6 Jahre gedauert, und erst vor kurzen Zeit habe ich mit der wirklichen Arbeit angefangen.

In Ihrer Bibliothek sollte aber noch ein Autor vertreten sein: Prof. Edwim Messikommer, Seegräben, Kt. Zürich, Suisse. Dieser ist jetzt (mit dem Dr. Grönblad) der bester Kenner der europäischen Desmidiiden. Haben Sie ihm Ihre Separaten gesendet? Dr. Messikommer hat aber leider seine älteren Arbeiten nicht mehr, und diese sind für Bestimmung sehr wertvoll. Ich habe diese Arbeiten in Fotokopie, einige können Sie auch kaufen.

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Ich habe auf dem beigefügten Platte ein Literaturverzeichnis verfasst, in welchem ich die Behandlungen eingereicht habe, welche Sie, soweit ich weiss, kaufen können. Die Behandlungen sind nach dem Literaturverzeichnis in Krieger-Rabenhorst pag. 114 and 660 angeführt (z.B. "Borge 1892A" lautet "Borge O., *Su. fossila sötvtattensalgar från Gotland*")

Die in Botaniska Notiser herausgegebenen Behandlungen können Sie beim Lunds Botaniska Förening, Arkivarien, Box 41, Lund, Sweden, kaufen. Wertvoll für Bestimmung sind aber nur die Behandlungen, Borge 1913, Lundberg 1931, und namentlich Grönblad. Die anderen sind nur Kleinigkeiten, und man muss immer den $\frac{1}{2}$ -Jahrgang, oder auch den ganzen Jahrgang (1892-1896) kaufen. *have*

Die Bihang...., Öfversigt...., und Arkiv för Botanik sind beim Nordiske Bokhandeln Stockholm, Sweden, zu kaufen. Sie könnten ~~es~~ auch mit dem Naturhistoriske Riksmuseet, Botaniska Avdelningen, Stockholm 50, für die amerikanische botanische Literatur austauschen. Es kommt aber billiger und bequemer, es direkt zu kaufen.

Die in Vierteljahrsschrift.... herausgegebenen Behandlungen kann man bei der Firma Gebrüder Fretz A.G., Mühlebachstr. 54, Zürich 32, kaufen. Man muss aber auch den ganzen Doppelnummer dieser Zeitschrift kaufen.

Dazu habe ich noch drei Bücher beigefügt. Namentlich das Buch von Dr. Messikommer ist sehr gut. Dagegen das grosse und dicke Buch von Sampaio habe ich selbst nicht gekauft. Der Autor wiederholt am meisten die Diagnosen aus den Werken von Krieger und West, und seine Abbildungen sind teils ganz auf dem West abhängig (er wiederholt namentlich sämtliche Fehler aus der West's Monographie), teils sind sie unverlässlich. Dieses Buch ist in der Portugiesischen Sprache geschrieben, was auch zum Gebrauch nicht bequem ist.

Die in dem Verzeichnis angeführte Literatur habe ich selbst vor etwa 2 Jahren gekauft. Ich wollte noch etwas aus dem amerikanischen resp. kanadischen Literatur kaufen,

namentlich das Buch von Irene-Marie, (ist dieses Buch gut und verlässlich?), aber wegen der neuen Devisenvorschriften konnte ich es nicht mehr tun. Jetzt ist für mich ausgeschlossen, etwas aus dem Auslande zu kaufen.

Ich füge auch das Verzeichnis der amerikanischen Literatur bei, welche ich selbst besitze. Leider ist es sehr wenig.

Ich danke sehr für die Einsendung der adressen der Mitglieder der Phycological Society. Vielleicht werde ich mit diesen etwas austauschen können, z.B. Diatomeen-Literatur für Desmidiolen.

Ich danke aufrichtig für Ihr Angebot, dass Sie für mich den Betrag von \$2 als Mitgliedsgebühr bezahlen wollen. Ich sehe aber keine Möglichkeit, wie ich Ihnen diesen Betrag später bezahlen könnte. Ich muss Sie sonach bitten, es vorläufig nicht zu machen.

Es ist aber nicht ausgeschlossen, dass ich später einen Bekannten finde, welcher an Ihre Adresse einen Geldbetrag für mich bezahlen wird. In diesem Falle werde ich Ihnen mitteilen, auf welchen Zweck ich diesen Betrag benützen könnte, und ich werde Sie bitten, dass Sie das für mich besorgen. Das alles ist aber unsicher, und ich weiss noch nicht, ob es dazu kommt.

Am 25 August habe ich auf Ihre Adresse das Buch: "Hansgirg, Prodrum der Algenflora von Böhmen, Teil II" gesendet; heute sende ich Ihnen als Imprimé noch das Heft 2 des Teiles I desselben Buches, welches auch die Desmidiolen enthält. Das Heft I ist leider keinesfalls zu bekommen, und auch das Heft 2 habe ich erst in diesen Tagen für Sie bekommen.

Von den ausländischen Zeitschriften nehme ich jetzt nur die schwedische Zeitschrift "Botaniska Notiser". Es ist aber dort sehr wenig von Algologie, und mehrere Behandlungen sind in der schwedischen Sprache, die ich nicht kenne, geschrieben. Über den anderen Zeitschriften kann ich Ihnen nichts sagen. Auf die französische Revue werde ich noch nachfragen.

Ich hoffe, dass wir in der schriftlichen Verbindung bleiben. Es ist gut möglich, dass wir einer dem anderen später noch nützlich sein können. Falls Sie z. B. eine Abschrift von Diagnose oder Kopie der Zeichnung ect. aus der europäischen Literatur brauchen könnten, wollen Sie es mir mitteilen. Ich selbst habe auch vor einigen Tagen eine solche Abschrift gebraucht und von dem Herrn Rektor Teiling bekommen.

Verzeihen Sie mir noch eine persönliche Anmerkung. Ich dachte immer, dass Sie etwa ebenso alt sind, wie ich (ich erlaube mir Ihnen als der 40 jährige Vater einer 6 jährigen Tochter vorstellen). Nach Ihrem Briefe haben Sie aber vor 45 Jahren studiert, so müssen Sie um einigen Jahren älter sein, als ich.

Es tut mir leid, dass ich Ihnen nicht so nützlich sein kann, wie ich wollte. Ich hoffe, dass Sie aber nach dem Literaturverzeichnis doch etwas bekommen werden.

Mit den best "desmidiologischen Grüßen"

Ihr ergebener

JIRI RŮŽIČKA

Bihang till K. Svenska Vet.-Akad. Handlingar Afd. III

Band.	No.		
16	5	Andersson	1890
27	4	Hohlin	1901
13	5	Boldt	1888
17	2	Borge	1891
17	4	"	1892 c
19	5	"	1894 a
21	6	"	1895
22	9	"	1896 c
→ 24	12	"	1899 b
→ 27	10	"	1901 a
→ 13	9	Lagerhaim	1888 b
14	1	Lewin	1888
→ 24	8	Schmidle	1898 a
→ 8	18	Wille	1884

Kongl. Svenska Vetenskaps - Akademiens Handlingar.

Band.	No.		
✓ 22	8	Nordstedt	1888 c
→ 25	5	Turner	1892

Översigt af Kongl. Vet. - Akad. Förhandlingar.

No.			
1871	2	Berggren	1871
1885	2	Boldt	1885
✓ 1896	4	Borge	1896 b
✓ 1899	7	"	1899 c
1863	9-10	Cleve	1863
1883	2	Lagerheim	1883
→ 1885	7	"	1885
✓ 1872	6	Nordstedt	1872 a
1875	6	"	1875
→ 1877	3	"	1877
1885	3	"	1885
✓ 1876	6	Nordstedt & Wittrock	1876
1879	5	Wille	1879

Arkiv för Botanik

Band.	No.		
✓ 1	4	Borge	1903
3	?	"	1904 in Binger Birger
6	1	"	1906 a
→ 6	4	"	1906 b
→ 7	13	"	1909
→ 15	13	"	1918
18	10	"	1923
→ 19	17	"	1925
23A	2	"	1930
25A	17	"	1933
29A	16	"	1939 Beitrage zur Algenflora von Schweden VI.
13	4	Cedergren	1913
25A	4	"	1932 (non 1933)
2	2	Lemmermann	1904 a

The above can be purchased from Nordiske Bokhandeln, Stockholm, Sweden.

Botaniska Notiser.

Häftet.

✓1892	?	Borge	1892	a, b.
1896	?	"	1896	a
1897	?	"	1897	
1900	1	"	1900	
→1911	5	"	1911	a
✓1913	1, 2	"	1913	
✓1926	?	Cedergren	1926	
1938	?	"	1938	Ein kurzer Beitrag zur Algenflora Medelpads.
✓1938	?	Grönblad	1938	Newer und seltene Desmidiaceen
1886	?	Lagerhaim	1886	
→1887	?	"	1887	
1931	4	Lundberg	1931	
1921	1	Ström	1921	b.

Above can be purchased from Lunds Botaniska Förening, Arkivarien, Box 41,
Lund, Sweden.

Vierteljahrsschrift der Naturforschenden Gesellschaft in Zürich.

Jahrgang. Heft.

72	1927	3-4	Messikommer	1927	b
73	1928	1-2	"	1928	
74	1929	1-2	"	1929	
88	1943	Beiheft 2.	Messikommer	1943:	Hydrobiologischer Studie an der Moorreservation der Schweizerischen Naturf. Ges. in Robenhausen-Wetzikon.
80	1935	?	Messikommer	1935	b.

Above can be purchased from Firma Gebrüder Fretz A.G., Muhlebachstr. 54,
Zürich 32, Switzerland.

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Messikommer E.: Beitrag zur Kenntnis der algenflora und Algenvegetation des Hochgebirges um Davos. Beiträge zur geobotanischen Landesaufnahme der Schweiz, Heft 24. Pflanzengeographische Kommission der Schweizerischen Naturforschenden Gesellschaft. 1942. Fr. 16.50.

Laporte L.-J.: Recherches sur la Biologie et la systematique des Desmidiées. Encyclopedie biologique, IX. Editteurs: Paul Lechevalier et fils, Paris 1931. 225 fr.

Sampaio J.: Desmidias Portuguesas. Boletim da Sociedade Broteriana. Vol. XVIII-2A serie. 1944.

Pisek am 3. sept 1950.

Lieber und geehrter Freund!

Im später Frühling wurde ich nach Vimperk, in eine kleine Bergstadt übersetzt. Ich arbeite dort 14 und mehr Stunden täglich, und nur selten kann ich nach Hause zu meiner Familie fahren. In diesen Bedingungen kann ich natürlich keinesfalls über die Arbeit in der Algologie sprechen. Ich muss noch einige Monate aushalten, und meine teure Cosmarian ruhig liegen zu lassen. Auch für Studium mer algologischen Werke bin ich jetzt zu überarbeitet, ich habe es versucht.

Die Frage meiner Zukunft ist damit nicht gelöst. Erst in einigen Monaten erwarte ich die endliche Einreihung in die Beschäftigung, und kann noch überhaupt nicht sagen, was mit mir sein wird.

Ich danke Dir herzlichst für alle Deine Gedanken, Separate und Grösse die ir eine grösste Freude machten. Esist für mich als Gruss aus einer anderen Welt, falls mir Zeit zu Zeit ein Separat von einem Algologen kommt, ist es immer ein Festtag für mich.

Bitte, sei so gut und grösse von mir gelegentlich auch den Herrn Scott. (Ein Separat ist für ihm). Es ist mir jetzt den verschiedenen Gründen zu seh schwer, ihm zu schreiben, aber icg denke oft an ian und an alle meine Freunde

Ich sende Dir einen kleinen Aufsatz, der mir jetst erschienen ist. Er soll die tjeckischen Algologen auf die unterschiede der drei ähnlichen, für mich so interessanten Arten aufmerksam machen.

Immer Dein Jiri R.

Pisek, March 16th. 1950.

Dear Sir,

I wish to apologize for not having written you, but I was a little ill in February. In the meantime I received many proofs of your friendship for which I thank you very sincerely.

At first I received your kind card from New York. Later on your photos gave great pleasure to me; you have an excellent equipment of your laboratory! Your Spinocosmarium is a very wonderful paper, and I admire your excellent drawings, indeed. Finely Dr. Prescott informe me you sent him my dues in the Ph.S. for this year; I thank you very much, but I do not wish to trespass upon your kindness!!

I shall be very glad to get the papers of Dr. Tait. I saw these in Prague, they seem to be very good, especially the "Lake Erie". I did not receive them up to this day, and I am looking forward to these. Dr. Sampaio sent me some papers and the book "Desmídias Portuguesas", Dr. Skuja sent me his excellent book "Algenflora Burmas", Dr. Taylor some his papers, too. Dr. Bishop advised me the sending of their papers.

I thank you very much that you ordered for me the reprints at Høst and Søn. I am sorry, that were to sold out and apologize for that trouble caused you.

I sent ca. 80 copies of my paper November 1949 since and have received ca 10-15 acknowledgements or papers in return.

I regret very much to have not time enough for a desmidiological work, which I can do only during my short time of rest; I am often too tired and overworked for such a work. I worry about my employment for the time to come, too. I would find an employment hawing to do with my hobby or related, but it is very difficult. At least, I was officially registered as "scientific workman", but it will have hardly any practical effects for me.

For the time being I wont the phostats of Krieger's drawings /Microsterias/ that you sent, and later on I shall delivre them to a student with a copy of my rewriting of the Krieger's text.

I thank you very much for your kindness expressed in your letters, by which I was ever so pleased.

Kindly accept my best wishes and regards.

Yours very trully

Jan Mikolaj

May 13 1950

Dear Dr. Ruzicka,

I received your letter of Mch 16th, and was very sorry to hear that you had been ill again, and hope that you have entirely recovered by now. The anxiety about your employment is no doubt a contributing cause, and I sincerely hope that things will work out all right for you.

Like you, I sent out about 60 copies of my *Spinocosmarium* paper, and received only about a dozen acknowledgements, and about 8 reprints in exchange. This has taught me to be more scrupulous in acknowledging reprints when they are sent to me. One of those who sent papers was Dr. Minoru Hirano, who wrote a nice letter. I have sent him a sketch of a curious desmid, *Microsterias rotata* var. *japonica*, found in Florida, and have asked him to compare it with the plants from his country.

Recently I wrote Irene-Marie to thank him for reprints of his papers on Lac St.-Jean, Trois Rivières, and Mistassini, and asked him to send copies to you, which he said he would do. I hope he keeps his promises better than Dr. Taft does. If you get them, please be sure to thank him; he is very sensitive about this!

Dr. Skjve sent me his book on Burmese algae, and I have sent him sketches of two of his new species which I found in the North Australian material that I have been working on. Also Dr. Nygaard sent me the 2nd volume of his large work on Phytoplankton of Danish Lakes, a very thorough work with excellent drawings.

A few months ago I had a nice letter from Dr. W. Krieger, who says that he is continuing to work on his monograph, and is now occupied with the genus *Cosmarium*, and I can readily understand him when he says "Es ist eine langwierige Arbeit bei der grossen Zahl der Arten, der systematische Unsicherheit und der immer mehr wachsenden Literatur". For me, *Cosmarium* is the most difficult genus of all, and there are many small species in my collections that I am completely at a loss to identify. I hope that Krieger will be able to continue his work and publish it; if he cannot complete it I don't think anybody else would have the courage to undertake it.

Brunel and Prescott have compiled a desmid bibliography which they hope eventually to develop into something like Nordstedt's Index. At present it is simply a mimeographed list of titles of works on desmids, with the necessary references of course. It is an enormous amount of labor, but it is not of much value to me because I have no way of telling the value of the thousands of papers, nor any way of acquiring them except by the expensive method of copying. In this country we have an "Inter-library exchange system", by which I can borrow, through the New Orleans Public Library, almost any book that is in the large libraries in New York, Washington, etc, simply by paying the postage. But when the book arrives in New Orleans I am not allowed to remove it from the Library, but must study it there. You can imagine how much good that is.

With my best regards and good wishes,
Sincerely yours,

Pisek, am 11. September 1948.

Sehr geehrter Herr Scott! Ich habe heute schreiben Sie Ihnen deutsch. Ich verstehe gut mit dem Wörterbuch/ ihren englischen Briefen, aber das englische Schreiben macht mir noch grosse Schwierigkeiten, und meine französische Sprache ist nicht besser.

Schade, dass Sie meine Fotokopien nicht ausnutzen können. Es sind darin gute Behandlungen. Das Fotokopieren ist manchmal die einzige Möglichkeit, sich die ältere Literatur zu besorgen, und die Kenntnis der alten Literatur ist für einen Desmidiologen sehr wichtig, wie Sie auch wissen. Der ämtliche Preis für 1 Seite der Fotokopie ist bei uns auch ca. 10.6 (Format 11/5) ich verfertige mir aber alles selbst, so dass mir eine Seite nur auf ca. 4-5 x kommt.

Sie haben aber schöne Bücher in Ihrer Bibliothek. West's Monographie soll jetzt einige hundert Kosten, und Krieger-Rabenhorst ist bei und keinesfalls zu kaufen. Ich habe so das Krieger's Buch fast Wort nach Wort abgeschrieben resp. die Abbildungen fotokopiert. Es war dazu natürlich die lange Zeit nötig. Ich bin ämtlich sehr beschäftigt und der Desmidiologie kann ich nur die freien Abende widmen. Diese und noch manche anderen Vorbereitungsarbeiten haben mir die ganzen 5-6 Jahre gedauert, und erst vor kurzer Zeit habe ich mit der wirklichen Arbeit angefangen.

In Ihrer Bibliothek sollte aber noch ein Autor vertreten sein: prof. Dr. Edwim Messikommer, Seegraben, Kt. Zürich, Suisse. Dieser ist jetzt mit dem Dr. Grönbld der beste Kenner der europäischen Desmidiien. Haben Sie ihm Ihre Separaten gesendet? Dr. Messikommer hat aber leider seine älteren Arbeiten nicht mehr, und diese sind für Bestimmung der Arten sehr wertvoll. Ich habe diese Arbeiten in Fotokopie, einige können Sie auch kaufen.

Ich habe auf dem beigelegten Blatte ein Literaturverzeichnis verfasst, in welchem ich die Behandlungen eingereiht habe, welche Sie, soweit ich weiss, kaufen können. Die Behandlungen sind nach dem Literaturverzeichnis in Krieger-Rabenhorst pag. 114 und 660 angeführt /z.B. Borge 1892a, lautet Borge O., Subfossila sötvaftensalger från Gotland/.

Die in Botanska Notiser, herausgegebenen Behandlungen können Sie beim Lunds Botaniska Förening, Arkivarien, Box 41, Lund, Sweden kaufen. Wertvoll für Bestimmung sind aber nur die Behandlungen: Borge 1913, Lundberg 1931 und namentlich Grönbld. Die anderen sind nur Kleinigkeiten, und man muss immer den 1/4 Jahrgang, oder auch den ganzen Jahrgang /1892-1896/ kaufen.

Die Bihang..., Ofversigt... und Arkiv för Botanik sind beim Nordiska Bokhandeln, Stockholm, Sweden zu kaufen. Sie könnten es aber mit dem Naturhistoriska Riksmuseet, Botaniska Avdelningen, Stockholm 50 für die amerikanische botanische Literatur austauschen. Es kommt aber billiger und bequemer, es direkt zu kaufen. /Etwa 5 schwedische Separaten könnte Ihnen auch ich einsenden, nach Ihrem Verzeichnisse sind es aber wahrscheinlich die Behandlungen, die Sie schon haben/.

Die in Vierteljahrsschrift... herausgegebenen Behandlungen kann man bei der Firma Gebrüder Kratz, A.G., Mühlebachstr. 54, Zürich 32 kaufen. Man muss aber auch den ganzen Doppelnummer dieser Zeitschrift kaufen.

Dazu habe ich noch drei Bücher beigefügt. Namentlich das Buch von Dr. Messikommer ist sehr gut! Dagegen das grosse und dicke Buch von Sampaio habe ich selbst nicht gekauft, der Autor wiederholt am meisten die Diagnosen aus den Werken von Krieger und West, und seine Abbildungen sind teils ganz auf dem West abhängig /er wiederholt namentlich sämtliche Fehler aus der west's Monografie/, teils sind sie unverlässlich. Dieses Buch ist in der portugiesischen Sprache geschrieben, was auch zum Gebrauch nicht bequem ist.

Die in dem Verzeichnis angeführte Literatur habe ich selbst vor etwa 2 Jahren gekauft. Ich wollte noch etwas aus dem amerikanischen resp. kanadischen Literatur kaufen, namentlich das Buch von Iréné-Merie /ist dieses Buch gut und verlässlich?/ aber wegen der neuen Devisenvorschriften konnte ich es nicht mehr tun. Jetzt ist für mich ausgeschlossen, etwas aus dem Auslande zu kaufen.

Ich füge auch das Verzeichnis der amerikanischen Literatur bei, welche ich selbst besitze. Leider ist es sehr wenig!

Ich danke sehr für die Einsendung der Adressen der Mitglieder der Phycological Society. Vielleicht werde ich mit diesen etwas austauschen können, z. B. Diatomen-Literatur für Desmidiën.

Ich danke aufrichtig auch für Ihr Angebot, dass Sie für mich den Betrag von 2 Y. als Mitgliedgebühr bezahlen wollen. Ich sehe aber keine Möglichkeit, wie ich Ihnen diesen Betrag später bezahlen könnte. Ich muss Sie sonach bitten, es vorläufig nicht zu machen.

Es ist aber nicht ausgeschlossen, dass ich später einen Bekannten finde, welcher an Ihre Adresse einen Geldbetrag für mich bezahlen wird. In diesem Falle werde ich Ihnen mitteilen, auf welchen Zweck ich diesen Betrag benutzen könnte, und ich werde Sie bitten, dass Sie das für mich besorgen. Das alles ist aber sehr unsicher, und ich weiss noch nicht, ob es dazu kommt.

Am 25. August habe ich auf Ihre Adresse das
Buch: "Hansgirg, Prodrum der Algenflora von Böhmen, Teil
II." gesendet, heute sende ich Ihnen als Imprimé noch
das Heft 2. des Teiles I. desselben Buches, welches auch
die Desmidiaceen enthält. Das Heft 1. ist leider keiner-
falls zu bekommen, und auch das Heft 2. habe ich erst
in diesen Tagen für Sie bekommen.

Von den ausländischen Zeitschriften nehme ich jetzt
nur die schwedische Zeitschrift "Botaniska Notiser". Es
handelt dort sehr wenig von Algologie, und mehrere Be-
handlungen sind in der schwedischen Sprache, die ich
nicht kenne, geschrieben. Über den anderen Zeitschriften
kann ich Ihnen nichts sagen. Auf die französische Revue
werde ich noch nachfragen.

Ich hoffe, dass wir ein weiteres schriftliches Verbin-
dung bleiben. Es ist gut möglich, dass wir einer dem
anderen später noch nützlich sein können. Falls Sie z.
B. eine Abschrift von Diagnose oder Kopie der Zeich-
nung aus dem europäischen Literatur brauchen
könnten, wollen Sie es mir mitteilen. Ich selbst ha-
be auch vor einigen Tagen eine solche Abschrift ge-
braucht und von dem Herrn Lektor Teiling bekommen.

Verzeihen mir eine persönliche Anmerkung.
Ich dachte immer, dass Sie etwa ebenso alt sind, wie
ich. Ich erlaube mir Ihnen als der 40 jährige Vater
einer 6. jährigen Tochter vorzustellen. Nach Ihrem Brie-
fe haben Sie aber vor 45 Jahren studiert, so müssen
Sie um einigen Jahren älter sein als ich.

Es tut mir leid, dass ich Ihnen nicht so nützlich
sein kann, wie ich wollte. Ich hoffe, dass Sie aber
nach dem Literaturverzeichnis doch etwas bekommen wer-
den.

Mit den besten "desmidiologischen" Grüßen

Ihrer ergebener

W. Kützner

The American works that I have in my library are :

- 1./ Prescott G.: Notes on the Desmid-Flora of New England I.:
The genus *Euastrum* in Massachusetts
- 2./ - " - Notes on the Desmid-Flora of New England II.
Desmids from Cape Cod and the Elisabeth-
Islands
- 3./ - " - Notes on alpine and subalpine Desmids from
Western New York
- 4./ Prescott G.: Notes on the Algae of Gatun Lake; Panama
Canal.
- 5./ Prescott G.: Preliminary notes on the Desmids of Isle
Royale, Michigan. The Genus *Cosmarium*
- 6./ Prescott G.: Further notes on the Desmids of Isle Roy-
ale, Michigan. The genus *Cosmarium*
- 7./ Prescott G.: Magnotta: Notes on Michigan Desmids...
- 8./ Prescott G. - Scott A.M.: The Fresh-Water Algae of sout-
hern U.S.: Desmids from Mississippi....
- 9./ Prescott G.: The Fresh-Water Algae of Southern U.S. III.
The Desmid Genus *Euastrum*...
- 10./ Prescott G.: The Desmid Genus *Micrasterias*...
- 11./ Smithe G.M.: Phytoplankton of the Island Lakes of
Wisconsin. Desmidiaceae...
- 12./ Taylor R.: The Fresh-Water Algae of Newfoundland II.
- 13./ Prescott G.: Alpine Algae...

/17, 13 in photostats/

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Bihang till K. Svenska Vet.-Akad. Handlingar Afd. III.

Band N:o

16	5	Andersson	1890
27	4	Bohlin	1901
13	5	Boldt	1888
17	2	Borge	1891
17	4	"	1892 c
19	5	"	1894 a
21	6	"	1895
22	9	"	1896 c
24	12	"	1899 b
27	10	"	1901 a
13	9	Lagerheim	1888 b ✓
14	1	Lewin	1888
24	8	Schmidle	1898 a
8	18	Wille	1884

Kongl. Svenska Vetenskaps - Akademiens Handlingar

Bandet N:o

22	8	Nordstedt	1888 c
25	5	Turner	1892 ✓

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N:o

1871	2	Berggren	1871
1885	2	Boldt	1885
1896	4	Borge	1896 b
1899	7	Borge	1899 c
1863	9-10	Cleve	1863
1883	2	Lagerheim	1883 ✓
1885	7	Lagerheim	1885
1872	6	Nordstedt	1872 a
1875	6	Nordstedt	1875
1877	3	Nordstedt	1877 ✓
1885	3	Nordstedt	1885
1876	6	Nordstedt et Wittrock	1876 ✓
1879	5	Wille	1879

Arkiv för Botanik

Band N:o

1	4	Borge	1903
3	?	"	1904 in Binger <i>Binger</i>
6	1	"	1906 a
6	4	"	1906 b
7	13	"	1909 ✓
15	13	"	1918 ✓
18	10	"	1923
19	17	"	1925 ✓

./.

- 23A 2 Borge 1930
 25A 17 " 1933
 29A 16 " 1939 Beiträge zur Algenflora von Schweden VI.
 13 4 Cedergren 1913
 25A 4 " 1932 /non 1933!/
 2 2 Lemmermann 1904 a

Botaniska Notiser

Häftet

- 1892 ? ? Borge 1892 a, b
 1896 ? " 1896 a
 1897 ? " 1897
 1900 1 " 1900
 1911 5 " 1911 a
 1913 1,2 " 1913
 1926 ? Cedergren 1926
 1938 ? " 1938 : Ein kurzer Beitrag zur Algenflora
 Medelpads
 1938 ? Grönblad 1938 : Neue und seltene Desmidiaceen
 1886 ? Lagerheim 1886
 1887 ? " 1887
 1931 4 Lundberg 1931
 1921 1 Ström 1921 b

Vierteljahrsschrift der Naturforschenden Gesellschaft in Zürich

- Jahrgang Heft
 72 /1927/ 3/4 Messikommer 1927 b
 73 /1928/ 1/2 " 1928
 74 /1929/ 1/2 " 1929
 88 /1943/ Beiheft 2. Messikommer 1943: Hydrobiologische Studie an
 der Moorreservation der Schweizerischen
 Naturf.Ges. in Robenhausen-Wetzikon
 80 /1935/ ? Messikommer 1935 b

Messikommer E.: Beitrag zur Kenntnis der Algenflora und
 Algenvegetation des Hochgebirges um Davos.
 Beiträge zur geobotanischen Landesaufnahme
 der Schweiz, Heft 24. Pflanzengeographische
 Kommission der Schweizerischen Naturforschenden
 Gesellschaft. 1942. Fr.16,50

Laporte L.-J.: Recherches sur la Biologie et la systématique
 des desmidiées. Encyclopédie biologique, IX.
 Editeurs: Paul Lechevalier et fils, Paris,
 1931 225 fr.

Sampaio J.: Desmídias portuguesas. Boletim da Sociedade Bro-
 teriana Vol. XVIII-2a série 1944

July, 28th 1948.

Dear sir,

As I returned from my leave I found your letter of June 1st. For myself I am also an amateur in desmidology and from the publication also, I lack of world literature suitable to determination.

Both you and I, we have a very beautiful, but also a very troublesome hobby; both we are in the same difficulties. I am sure we can gain by reciprocal work and I offer it sincerely. If the philatelists and esperantists help each other, why not the desmidiologists?

During the last seven years I collected rather 200 desmidologic papers /circa 95% by photocopying, copying and purchasing/ and I have some experience in the European literature; but I know very little from the American one.

I thought the fellow-labour would be possible in these points:

- 1./ Exchange of addresses, where this literature is sold and exchange of the catalogues lists of literature. I shall gladly send you several addresses where I bought about 50 good papers of European desmid. literature.
- 2./ Exchange of copies. I copied already more than 1000 pages and next time I should make for you the copies on the typing-machine, typewriter.
- 3./ Exchange of fotocopies. I made an apparatus for the reflexcopying of documents. I have a great number of negatives I am able to lend you, if you are possible to make the positives.
Lateron I should make you some negatives of good papers of my own library. In the meantime the necessary reflectografic fotopaper is not to be obtained.
- 4./ Exchange of Leica-film- or fotopapercopies. Such copies could be made for you in the Universitylibrary in Praha. In exchange for this amount you could buy me either some literature or make for me some copies in America.
Some of them I have send already to Mr. Teiling.
- 5./ Exchange of duplicates - rather limited to day. But I have one little paper in print, one in manuscript, the third I began to write. Lateron I hope to get some other papers /not my own/ too.

Lease inform me if such a fellow-labor would be satisfying to you. In this case we should make some minute scheme.

8881 2333 #101
Tell me also how look your library or which books
you yourself use by work.

Here the addresses of Bohemian desmidologists :
Prof. Karel Rosa, Praha XVI., U Nesypky 61
Oldřich Lhotský, Praha XII, Londýnská 37
Dr. Jindřich Roubal, Praha III., Karmelitská 65

I look for your letter and send you my colleague-
amateur cordial greeting.
Yours

J. Růžička
Dr. JIRÍ RŮŽIČKA
PISEK, ZEYEROVA 1343

Exchange of addresses, where this literature is sold
and exchange of the magazines lists of literature. I
shall gladly send you several addresses where I bought
about 30 good papers of European-desmid literature.

I can good read English, but do not do good writing.
Do you read Germany?

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Exchange of documents. I have a great number of ne-
gatives I am able to lend you, if you are possible to
make the positives.
Later on I should make you some negatives of good pa-
pers of my own library. In the meantime the necessary
reticulated paper is not to be obtained.

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In exchange for this amount you could buy me either some
literature or make for me some copies in America.
Some of them I have send already to Mr. Telling.

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I have one little paper in print, one in manuscript, the
third I begin to write. Later on I hope to get some other
papers (not my own).

Please inform me if such a fellow-labor would be satis-
fying to you. In this case we should make some minute
scheme.