



PHYCOLOGICAL NEWSLETTER

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INSIDE THIS ISSUE:

Note from Editor	1
PSA Student Members gain Representation	1
News from the Journal	2
Phycological Trail-Blazer No. 14: Anna D. Zinova	2
PSA Student Grants for 2001	6
Summer Field Courses	6
Notables	7
Conferences	7
Bold Award Competition 2001	7
2001 Annual Meeting	7

NOTE FROM THE NEWSLETTER EDITOR

Dear Readers,

We now have in place a Communications Committee composed of Paul Kugrens, University of Colorado, Mike Wynne, University of Michigan, Alison Sherwood, University of Hawaii, Matthew Wargo, Dartmouth and myself. Our committee will be discussing ways to make the PSA website and Newsletter more useful to professionals and students. If you have suggestions that you would like the committee to consider, please send them to me via email (psa@psaalgae.org). In addition we are still searching for someone who would like to edit the bi-annual newsletter. Please consider volunteering.

I hope you find this newsletter filled with useful information for students and professionals alike. As always this newsletter will be posted in pdf format at the PSA website:

WWW.PSAALGAE.ORG

Deadline for submission of information for the next PSA NEWSLETTER:

July 15th

Please contact Morgan Vis
(psa@psaalgae.org)

PSA STUDENT MEMBERS GAIN REPRESENTATION

Last autumn, the PSA added a Student Member seat to the Executive Committee. The role of this EC member is to seek student input on PSA issues and to coordinate student functions and involvement in our society's activities. Several nominees for the pro-tempore appointment were considered. After a close vote by the EC, I was elected to the seat. For those of you who don't know me, I'm at the University of Washington where I'm completing my dissertation on the systematics of the Ulvaceae. (See p. 19, right column, in the Fall 2000 PSA Newsletter at www.psaalgae.org/pubs/newsletter.html - I'm the one in the middle!)

I've been a member of the PSA since 1995, and I believe it's a great society for students. The PSA provides a diversity of resources for its student members, including funding for research and travel, and it actively works to increase these resources annually. It encourages students to participate in annual meetings, and unlike some larger societies gives students nearly unlimited opportunities to give papers. It also welcomes student participation in society business and now has official student representation on its Executive Committee.

I encourage each of you to take advantage of all the PSA has to offer, if you haven't already. Check out

the PSA website for details on research and travel funds (www.psaalgae.org/student/stugrants.html) and plan to present your work at the meeting in Colorado this summer. Send me an e-mail with your thoughts on issues you think are important to the Society or suggestions for how the PSA could better serve its student members. An upcoming issue for students is that the PSA will elect a Student EC Member to take office on 1 January 2002 when my term ends. If you're interested, please nominate yourself on the 2001 ballot. If you have questions about the seat, don't hesitate to contact me. In addition, I'd like to expand the PSA website to include additional information for students, including links to non-PSA funding sources and training opportunities. Do you have other ideas? Let me know!

It's my pleasure and privilege to represent you to the PSA Executive Committee, and I look forward to communicating with you over the year.

Hillary Hayden
Student Representative
hhayden@u.washington.edu

NEWS FROM THE JOURNAL

Electronic J. Phycol. The *Journal of Phycology* is available electronically through both Synergy from Blackwell (www.blackwell-synergy.com) and HighWire Press (www.jphycol.org). The HighWire Press version will be free to the public until early March. The entire electronic journal (1998-present) will soon be available in both places, probably before the Newsletter reaches your box. PDF versions of articles can be down-loaded by members (using the password system that Blackwell has mailed you), and the quality appears to be quite good. Please check both versions of the on-line journal and let us know which you like the best. We may choose to keep only one of these after 2001, and both have different feels and features. We need to know which version serves the membership's research and teaching interests best. Blackwell Science has not been as prompt with posting of the electronic journal to date as we expected, but this is improving with each issue. Soon, a member in China will have access to the *Journal* as fast as it comes off the press in the U.S.—due to the electronic age. It is a wonderful time to be a scientist!

Tips for Publication! Please submit a hard copy of any image that will be captured by the press from a disk in publication of your work; this hard copy needs to have the same quality and contrast you expect in the published copy. Too often, we get poor hard copies, and time and effort is wasted trying to achieve the quality you expect in reproduction. Additionally, the press person determining the contrast of a micrograph from your disk—for any journal to which you submit—is unlikely to be a trained scientist or photographer. SO,

please help us help you! Send an accurate hard copy with the contrast you want, and we'll be able to reproduce your work with care. Finally, please do not submit color images when you intend for publication to be in black and white. The gray scales don't match and poor contrast nearly always results. Submit in color for color reproduction and in black and white for black and white reproduction. Unfortunately, digital technology still lacks the resolution produced with negatives / fine-grained films, but it is improving quickly.

Where are they now? Our first editorial assistant, Dr. Joyce Longcore, holds a position as Research Assistant Professor at the University of Maine. She is a Co-PI on two large grants to study chytrid fungi, including their role in amphibian deaths worldwide. Ms. Chelly Richards has just returned from a two-year stint in the Peace Corps in Honduras and plans to enter graduate school in environmental science in the next year. She wrote a chapter for the revised Peace Corps Handbook and was told hers was the best. Ms. Lesley Zwicker is finishing a pharmacy program at Dalhousie University and has applied to be the Editor of a major student health sciences journal in Canada. Lesley is considering going on for her Ph.D. Perhaps she will study algal toxins? Ms. Laura Pisconski, our present Editorial Assistant, is writing her thesis for DePaul University on international adoption—when not logging in your manuscripts, treating them with tender loving care, and helping the Editor obtain constructive reviews that improve your research. It has been a source of much satisfaction to work with each of these individuals. They have served us very well.

We are always eager to expand our list of reviewers. Please send a C.V. and state your area of expertise if you would like to review more often or begin reviewing for the *Journal*.

Best wishes for 2001,
Susan Brawley
Editor, JPhycol.

PHYCOLOGICAL TRAIL-BLAZER

No. 14: Anna D. Zinova

Anna Dmitrievna Aleksandrova [Zinova] was born in 1902 in the city of Samara, located on a loop of the Volga River, where it reaches its farthest point east and joins the Samara River. Her father worked as a captain of a ship on the Volga; her mother had been a school-teacher before she got married. That region of the country was devastated following the Revolution and Civil War, and both parents died from hunger in 1920, leaving the teen-aged Anna to care for an 8-year-old sister and a 3-year-old brother. The brother also died of hunger not long after the parents. After her elementary and



Anna D. Zinova, on the grounds of the Komarov Botanic Institute in Leningrad [now St. Petersburg], July, 1975.

highschool education in Samara (1910-1919), Anna's first job was as a post office worker. By that time she and her sister had moved to Balakovo. She held positions as teacher and clerk in various state organizations. In autumn of 1921 she received official permission to take the examination in Petrograd for admission to the university.

Anna Zinova and a female cousin traveled to Petrograd [to be renamed Leningrad in 1924, the name later reverting in 1991 to the original St. Petersburg] and stayed with their aunt, Elena Stepanova Sinova, a prominent marine phycologist. The story is that Anna, the smarter of the two cousins, took the entrance exam, left the room, changed into different clothing, and returned to re-take the exam in her cousin's name. Both were admitted to the Institute of Geography. But, by the summer of 1925 Anna had run out of funds and was forced to leave the Institute. She returned to Samara, where her sister was living. Anna worked there from 1925 to 1930 as an accountant in the local government administration dealing with the municipal economy.

In 1930 Zinova returned to Leningrad, where she joined an expedition to investigate iodine-containing algae in the region of Murmansk and the White Sea. The expedition was led by her aunt Elena. Separately from the survey work, Anna carried out independent research on the marine algae from the island of Malij Olenij ("Little Deer"). The results of this study eventually became her first publication. In autumn of the same year she resumed her academic pursuits, enrolling in the Faculty of Geography in the Leningrad State University [= the State University of St. Petersburg].

In 1931 Anna participated in another expedition led

by her aunt, this time to the Sea of Japan. She was able to collect and study brown algae from the region of Vladimir Bay and Olga Bay. It was this exposure to marine algae on these expeditions, along with the helpful guidance from her aunt, that led Anna to realize that she wanted to pursue marine phycology as her future career.

After her graduation in 1932 Zinova took part in another expedition, this one as an assistant to the geobotanist of the Institute of Peat. The purpose was to investigate the marshy areas around Karelia in northwestern USSR. Then in Sept. she took part in an expedition organized by the Ministry of Light Industry in Leningrad. She was able to study marine algae from Kandalaksha Bay, the White Sea. In the period from the end of 1932 until March of 1933, she worked with the State Hydrological Institute. Her responsibility was to write sketches on the algae from the Gulf of Finland, as well as the White, Kara, and Bering seas and the seas of Okhotsk and of Japan. Although she composed a total of 6 essays, only one was published, that on the algae of the Gulf of Finland. This research was instrumental in exposing her to the world's literature on marine algae, and it caused her to start her serious interest in compiling a bibliography on algal literature.

From June of 1933 to March of 1935 Zinova worked as a hydrobiologist in the lab of the Leningrad Biological Administration (Hydrometeorological Management) with responsibility for studying the phytoplankton of lakes and rivers. This job meant expeditions to the Monche lakes and the rivers and tundra in the region around Leningrad. Results of these studies on the phytoplankton, macrophytes, and zoobenthos resulted in a publication in 1935. But this lab was shut down in the same year. Fortunately for Zinova, she was able to start a job as a specialist in algae in the Department of Cryptogamic Plants, the Komarov Botanical Institute, Leningrad. This became her permanent job. When Anna entered it, the Department was headed by her aunt. Anna visited many regions of Russia where the algae had not previously been collected or studied, such as the northern, southern, and eastern shores. She also studied the algae of the White and Barents Seas, at times describing new taxa. Having accumulated ample material from these collecting trips, she was able to carry out a meaningful study of the systematics of various groups. Her initial group for study was brown algae. At that time there were no synthetic studies on Russian algae but many small-scale studies. Gradually Anna Zinova became recognized as a specialist in her field, often being sent materials to be determined.

At the same time Anna was working at the Komarov Institute, she also had an appointment, starting in 1936, with the Laboratory of Hydrobiology of the State University of St. Petersburg. She was a graduate student in the period 1939-1943. During World War II Leningrad was subjected to a blockade, the infamous "900-day

siege", causing unbelievable hardship, with no food and no heat. Countless citizens died of hunger, including Elena Sinova in 1942. It was during the War that Anna Zinova managed to continue her studies on the taxonomy and the distribution of seaweeds. In 1945 she completed her Candidate's thesis "On the algae from the White, Barents, and Kara Seas, their relationships and origins". In this thesis she discussed basic principles of methods for biogeographical analyses. Following the death of her aunt, Anna Zinova emerged as the pre-eminent marine phycologist in the country.

The main contributions by Zinova were on the floristics of the brown and red algae of the northern seas (Barents, White, and Kara), the far-eastern seas (Japan, Okhotsk, and Bering), and the southern seas (Black, Azov, and Caspian). She published two books on the brown (1953) and red (1955) algae of the northern seas of the Soviet Union. These books still remain important compilations. She also published on collections that she received from the Antarctic and Subantarctic regions (1963, 1964, 1973). Zinova had a broad view of the distribution of algal species in the world's oceans, and she contributed her ideas on phytogeography by comparing the composition of the floras from these various regions.

In 1967 she published her study of the green, brown, and red algae from the southern seas of the USSR, i.e., the Sea of Azov and the Black and Caspian seas, based on her own collections made in 1951 and 1952. This work was the basis for her earning a doctoral degree. The bibliography that she still maintained included a subject break-down, such as distribution, green, brown, and red algae, list of new taxa, etc. This catalogue was based on the algal literature of the world. She was given the title of Chief of the Marine Algology Group at the Komarov Botanical Institute of the USSR Academy of Sciences. Although Anna Zinova did not teach, she greatly influenced the next generation of Russian marine phycologists. In fact, all Russians entering this field from the early 1960's through the 1980's were in essence her students. Zinova carried on an active correspondence not only from within the Soviet Union but with colleagues from more than 40 countries. Such correspondence with the outside world was not encouraged at that time, but such a narrow attitude did not deter Zinova. This helped her maintain her compilation of the literature, which was not available elsewhere in the country. These books and reprints are now housed in the Department of Algae in the Komarov Botanic Institute.

In 1944 Anna married Vasilij Grigorievich Aleksandrov, a fellow employee in the Institute. Although she took his surname, she retained "Zinova" in her professional career. The couple had one daughter. Anna was active in various other pursuits, such as with a civilian defense unit and in working toward the liquidation of illiteracy. She was also a union activist. Dur-

ing the War she gathered sphagnum moss for use as bandages and helped in building defense structures. She served as a hospital nurse and stood on duty during air-raids. She once fell on the street in the winter, and an unknown woman helped her walk to work, which saved her from freezing to death on the street.

In 1970 Anna Zinova retired, but she continued consulting until 1973. It was in 1975 during the XIIth International Botanical Congress that at the invitation of Louise P. Perestenko I had the opportunity to visit the Komarov Botanic Institute. This Institute has its origins going back to 1714, when Peter the Great founded a Pharmaceutical Garden in St. Petersburg, at the time the city was becoming the capital of Russia. The Institute itself goes back to 1931 when there was a merger of the [Imperial] Botanic Garden and the Botanical Museum of the Academy of Sciences of the USSR (Shetler, 1967). On a sunny Sunday, I met and chatted with Drs. Perestenko, V. B. Vozzhinskaya, and Anna Zinova. While we ate cucumber slices with bread and sipped hot tea, the ladies proudly displayed an original of the elephant-folio *Illustrations Algarum* (1840) by Postels and Ruprecht. Dr. Zinova also related the terrible time of the siege when they were forced to consume the herbarium paste, made up of flour and water, to survive.

In her retirement Zinova kept in contact with colleagues around the USSR and the world. She passed away on Sept. 13, 1985. Despite her humble origins and despite the many challenges she faced throughout her life, she was a major figure in phycology of the 20th Century.

A distinctive member of the Delesseriaceae from the Aleutians was named *Zinovaea* (*Z. acanthocarpa*) by Wynne (1970) in honor of Anna Zinova and her many contributions to our understanding of this red algal family in the North Pacific.

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I gratefully acknowledge Dr. Kira L. Vinogradova of St. Petersburg for providing me with information on the life of A. Zinova, Dr. Yuri B. Okolodkov for his helpful comments, and Mrs. Svetlana Rudnicka of Varna, Bulgaria, for translating Russian into English. Mrs. Margarita Barvinok (Dept. of Biology, Univ. of Michigan) also contributed some of her insights.

M. J. Wynne
University of Michigan, Ann Arbor



Zinovaea acanthocarpa
Habit of cystocarpic thallus

**Next issue: Phycological Trailblazer
No. 15: Horatio C. Wood**

PSA STUDENT GRANTS FOR 2001

The Phycological Society of America supports graduate student member development through 3 programs including the Croasdale Fellowships, the Hoshaw Travel Awards, and the Grants-in-Aid of Research.

Hannah T. Croasdale Fellowships

These fellowships are designed to encourage graduate students to broaden their phycological training by defraying the costs of attending phycology courses at biological field stations. The purpose of the award is to broaden phycological training and not necessarily to further research goals. Proposals to study at field stations associated with universities other than the student's own are especially encouraged. Awards are made directly to the student in amounts up to \$850. The deadline for receipt of completed application is March 15, 2001. Note: Fellowship support to attend technique courses should be requested from the Grants-in-Aid of Research Program.

Hoshaw Travel Awards

These awards are to help students with their travel expenses to the annual PSA meeting. All other factors equivalent, students who will present their research at the meeting (lecture or poster) will be given priority. The deadline for receipt of completed application is March 31, 2001. Successful applicants will be notified prior to the meeting and the awards will be presented at the meeting.

Grants-In-Aid of Research

Awards are made in amounts of up to \$700 by the Phycological Society of America in support of graduate student research in any area of phycology. Awards are intended to enable the student to accomplish work not otherwise possible. Awards are made directly to the student. No part of the award may be used to pay indirect costs to the applicant's institution, or to pay stipends. Selection of recipients will be based primarily on the applicant's research proposal and two supporting letters. Additional criteria will include evidence of past research achievements and the perceived future of the applicant as a researcher. In the course of a student's graduate education, no more than two GIA grants will be awarded. Travel to scientific meetings should be requested from other PSA programs. Tuition and expenses for taking critical techniques courses not available at the home institution will be considered. Applicants must include a brief research proposal, a proposed budget and two letters of recommendation. The deadline for receipt of completed applications is April 1, 2001.

Please see:

www.psaalgae.org/student/stugrants.html

for full details including electronic submission of applications or contact Dr. Erin Krellwitz, e-mail: erin.krellwitz@carolina.com

SUMMER FIELD COURSES

Numerous courses are available at field stations. The following is a sample of courses for which more information can be viewed at:

www.psaalgae.org/student/friday.html

Aquatic Botany

Dates: July 16 - August 16, 2001

Location: Cedar Point Biological Station, NE

Marine Algae (Phytoplankton and Seaweeds)

Dates: July 16-August 18, 2001

Location: Friday Harbor, WA

Systematics & Ecology of Diatoms

Dates: June 17-July 13, 2001

Location: Iowa Lakeside Laboratory, IA

Freshwater Algae

Dates: May 20-June 15, 2001

Location: Iowa Lakeside Laboratory, IA

Algae in Freshwater Ecosystems

Dates: June 23 -Aug 18, 2001

Location: U. of Michigan Biological Station, MI

Marine Phycology

Dates: April 30 - June 8, 2001

Location: Bamfield Marine Station, BC, Canada

Ecology of Coral Reefs

Coastal Tropical Oceanography

Dates: June 4 - July 6 2001

Culture Techniques for Marine Planktonic Algae and Protozoa

Dates: May 21-25, 2001

Location: Bigelow Laboratory for Ocean Sciences

Ocean Optics & Radiative Transport

Dates: June 4-15, 2001

Location: Bigelow Laboratory for Ocean Sciences

Modern Techniques for Analyzing Marine Phytoplankton Populations

Dates: June 18-22, 2001

Location: Bigelow Laboratory for Ocean Sciences

Biochemical Oceanography

Dates: July 9-13, 2001

Location: Bigelow Laboratory for Ocean Sciences

Freshwater Algae

Dates: July 21-28, 2001

Location: Kindrogan Field Centre, Scotland

Practical Algal Ecology

Dates: July 29 -August 4, 2001

Location: Kindrogan Field Centre, Scotland

Marine Botany

Dates: June 6 - July 13, 2001

Location: Marine Science Inst., Port Aransas, TX

Seaweeds, Plankton and Seagrasses

Dates: June 11 - 25, 2001

Location: Shoals Marine Laboratory, NH

NOTABLES

Lewin, R.A. (2000) "Abacus and Swallows: poems about animals and plants" (Mellen Poetry Press; Lewiston, N.Y., Queenston, Ont., Canada and Lampeter, Wales; 72 pp.; ISBN 0-7734-1260-3) has a few poems about algae, including Toxic blooms, Phycology by Fiat, Weeds and Words for PSA-L and Caveat Laminaria!.

Dr. Grant Mitman's research on the Berkeley Pit was the subject of a recent Discover article. The web version (minus pictures) can be viewed at:

www.discover.com/dec_00/gthere.html?article=featnewlife.html

CONFERENCES

For more information, please see: www.psaalgae.org/news/news.html

Northeast Algal Symposium

Dates: April 20-22, 2001

Location: Sheraton Hotel, Plymouth, MA

Northwest Algal Symposium

Dates: May 11-13, 2001

Location: Casey Conference Ctr., WA

5th International Conf. on Toxic Cyanobacteria

Dates: June 15-20, 2001

Location: Noosa, Queensland, Australia

Association of Marine Laboratories of the Caribbean - AMLC

Dates: June 24-29, 2001

Location: La Parguera, Puerto Rico

Ecology of Wetlands & Shallow Lakes

Dates: August 15-19, 2001

Location: Delta Marsh, Manitoba, Canada

7th International Phycological Congress

Dates: August 18-25, 2001

Location: Thessaloniki, Hellas (Greece)

North American Diatom Symposium (NADS)

Dates: September 19-22, 2001

Location: Ely, MN

Plankton Symposium

Dates: September 20-22, 2001

Location: Espinho, Spain

BOLD AWARD COMPETITION FOR 2001

Since 1974, students have been invited to participate in the 2001 Bold Award competition for the outstanding student research presentation at the annual meeting. The award, named in honor of the late Professor Harold Bold, consists of a certificate and monetary prize. The information presented must be that of the student's, must be presented orally by the student in English, and should be a complete or nearly complete study.

Students wishing to be considered for the Bold award must submit a COPY of their abstract and an ORIGINAL signed letter from the student's research director (mentor/major advisor) or department chair, verifying that the candidate is a student and that the work to be presented represents the initiative, imagination, and labor of the student, to: Dr. Terence J. Evens, Chair; PSA Bold Award Committee, Southern Regional Research Center, Agricultural Research Service, U. S. Department of Agriculture, P. O. Box 19687, New Orleans, LA 70179 USA (Telephone: 504-286-4492; Facsimile: 504-286-4367; Electronic Mail: tjevans@nola.ssrc.usda.gov) by 31 March, 2001.

2001 ANNUAL MEETING

The 55th annual meeting of the *Phycological Society of America (PSA)* will be held Sunday, June 24th to Thursday, June 28th, 2001 at the Estes Park Conference Center in Estes Park, Colorado USA.

WWW.ESTESPARKRESORT.COM

The meeting will consist of daily plenary lectures, organized symposia ('*Algal Chemicals as Mediators of Biotic Interactions: From Molecules to Ecosystems*', '*The Role of Algae in Integrated Aquaculture*', '*Algal Genomics*', '*Perspectives in Macroalgal Systematics*') and contributed oral and poster papers. Bold Award papers will be oral presentations within an organized symposium on Sunday, June 24th.

Located just 75 miles from Denver, Colorado, Estes Park offers the majestic wilderness of Rocky Mountain National Park as the background setting to the 55th annual meeting. In addition to the scientific venue, enjoy the breathtaking scenery of the Rocky Mountains, dine in a multitude of restaurants, and a variety of recreational activities, including biking, fishing, horseback riding, river rafting, mountain climbing, and hiking. In addition, activities in nearby Denver include professional baseball (Colorado Rockies of the National League), shopping at some of the finest shopping centers in the country, entertainment, night clubs, and fine restaurants. For additional information or requests contact the Program Director, Larry Fritz (Lawrence.Fritz@nau.edu).

ABSTRACT DEADLINE MARCH 31st

For more information on abstract submission
www.psaalgae.org/meeting/meeting.html



Not only will you be able to catch up all the latest research in Phycology, you might also see Columbine in bloom plus spectacular scenery at the 55th Annual Meeting of the Phycological Society of America June 24th-28th, 2001 at Estes Park, CO. See page 7 for more details.



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