



# NEWSLETTER

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We were waiting news from California to publish the first issue of the year of Newsletter. We are very happy to have now precisions and to be able to transmit you the following invitation.

The fifth International Crayfish Symposium will be held on August 16-23 1981 at the University of California. The Co-ordinator of the event is Dr. Charles R. Goldman (Division of Environmental Studies, University of California, Davis, California 95616). Further information of this very important event will appear in the next newsletter.

You may recall that the first Symposium, together with the founding of the IAA, was held in Austria in 1972, the second one in Louisiana, U.S.A. in 1974, the third one in Finland in 1976, and the fourth one in France in 1978. The sixth Symposium is planned for in Sweden. Participation in these Symposia has been on the increase steadily, and we are sure that we have a good and interesting gathering again in California in 1981. We invite everybody to attend this meeting that is the central event in the activities of the IAA.

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Prof. Torgny Unestam (Department of Physiological Botany, University of Uppsala, 75121 Uppsala, Sweden) sends the following note :

Now finally our color film on the research around *Aphanomyces astaci*, its adaptation as a parasite and the resistance mechanisms in the host, the crayfish, is finished and is available for sale at a non-profit price (about \$ 500). The "draft" copy was shown at the 2nd International Congress of Mycology, Tampa, Florida, in 1977 and at the Crayfish Symposium in Thonon, France, in 1978. If you are interested in buying a copy, send me a line, and the copy is ready in about 30 days.

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Crawfish culture workshop / short course :

A crawfish culture workshop / short course was held March 3-4, 1980, at the University of Southwestern Louisiana, Lafayette, La., U.S.A. The course emphasized the Louisiana Red Crawfish, Procambarus clarkii, a species now well established in Japan, Spain and Kenya. Roughly 20,000 hectares are devoted to its culture in Louisiana. For further information you may contact Dr. Donald Gooch, Director of the Crawfish Research Center, P.O.B. 44650, University of South-western Louisiana, Lafayette, La. 70504 (phone 318-264-6647), or Dr Jay Huner, Department of Biological Sciences, Southern University, Baton Rouge, La. 70813 (phone 504-771-5210).

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Crustacean Society

The Crustacean Society, a formal society to serve as a focal point for studies on all aspects of crustacean biology, has been established. One of the Society's goals will be the prompt publication of members' shorter manuscripts on any aspect of the biology of this group of arthropods. The Society's Journal will begin publication in 1981. There are no prerequisites, membership in the Society is open to anyone interested in Crustacea.

For those persons interested in learning more about or want to join the Society please write to : the Crustacean Society, c/o R.B. Manning, IZ-NHB-W323, Smithsonian Institution, Washington, D.C. 20560, U.S.A.

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Dr Jozef Kossakowski from Poland has sent us the following report.

The Inland Fisheries Institute in Olsztyn continues attempts at introducing Pacifastacus leniusculus Dana into Polish waters. The crayfish are imported from Sweden in the form of hatchlings from the Simontorp Akvatiska Avelslaboratorium, Blentarp. However, no further data than those presented in Freshwater Crayfish 4 can be given as yet.

Dr Maria Stypinska (Institute of Biology, Teachers Training College, Zolnierska 14, 10-561 Olsztyn, Poland) reports that studies on crayfish reproduction (of Astacus astacus, Astacus leptodactylus, and Orconectes limosus) in lakes of the Mazurian Lake District have been in progress since 1969. They include, most of all, problems of the fecundity of females, and fecundity of crayfish populations. Materials have already been collected on female gonad development of the three species. Systematic studies on the distribution of A. astacus and A. leptodactylus in Varmian and Mazurian water bodies have also been made since 1969.

Prof. Lech Szlauer (Dept. of Hydrozoology, Institute of Ichthyology, Agricultural Academy, Kazimierza Krolewiczka 3, 71-550 Szczecin, Poland) reports the following : It has been found that pike (Esox lucius L.) can feed on crayfish (Orconectes limosus). In August 1969, while I was diving in Lake Insko in northern Poland, I observed an about 700 g pike attacking an adult crayfish. The alimentary tract of this pike contained parts of crayfishes ingested earlier. Pike muscles were of distinct orange coloration, pointing to habitual feeding on crayfishes. The reason for this rather untypical diet might have been the deformation and rigidity of the terminal section of the pike's backbone. Most probably the pike was unable to catch fishes.

A new crayfish book published

In 1979 the Academy of Sciences of the Lithuanian SSR published a book entitled "the Biology of the Crayfish of the Lithuanian Inner Waters". It is prepared by the Institute of Zoology and Parasitology. The book contains 148 pages with the following contents :

Sestokas & Cukerzis : History of the investigations of the Lithuanian inner water crayfish.

Cukerzis : biological investigations into broad-clawed crayfish (Astacus astacus L.).

Mazilis : Embryonic development of the broad-clawed crayfish.

Cukerzis & Sestokas & Tamkeviciene : Artificial breeding of broad-clawed crayfish juveniles in Lithuania.

Mackeviciene : Dynamics of water, mineral substances and protein metabolism during the postembryonic development of the broad-clawed crayfish.

Tamkeviciene : Some quantitative regularities of feeding of broad-clawed crayfish.

Mickeniene : Influence of food and nourishment on the digestive tract microflora of the broad-clawed crayfish.

Mackeviciene : Some peculiarities of metabolism of the broad-clawed crayfish.

Mazyilis & Grigelis : On the diseases of the broad-clawed crayfish in some Lithuanian Lakes.

Dorosenko & Mazyilis & Kan & Belianin : On the creation of the model of the habitat for the investigation of behavior of the broad-clawed crayfish.

Terentjev : Acclimatization of the crayfish (Pacifastacus leniusculus) in the Lithuanian SSR.

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A list of publications concerning crawfish has been set up in March 1980 by the School of Forestry and Wildlife Management, Center for Agricultural Sciences and Rural Development, Louisiana State University, Baton Rouge, Louisiana 70803. This list deals with papers published from 1976 to 1978. To obtain it please write to the above address.

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M.L. Comeaux, 1978 : The crawfish industry of California and the Northwest. The California Geographer 18 : 121-135.

S. Gladson, 1979 : The crayfish, Oregon's freshwater lobsters. Oregon Wildlife 39, 7 : 3-7.

N.M. Morrissy, 1980 : Production of Marron in Western Australian wheatbelt farm dams. Fisheries Research Bull. Western Australia 24 : 1-79.

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Un symposium sur l'aquaculture s'est tenu à Odessa du 22 au 25 Novembre 1977 sous l'égide de l'Académie des Sciences de l'URSS et du VNIRO. Les résumés des 87 communications présentées ont été publiés et parmi celles-ci 26 concernaient les écrevisses. Parmi les titres de ces communications fort intéressantes nous avons relevé : "Mode d'infection des espèces autochtones d'écrevisses par la peste à partir de son hôte Pacifastacus leniusculus Dana" par Cukerzis et Sestokas. "L'élevage artificiel des écrevisses de rivière en Moldavie" par Mouchtchinski.

For sale :

Due to ill health Robert Le Blue, owner and developer of Monterey Bay Hydroculture Farms is selling the thriving business. Mr Le Blue, an engineer and well-known consultant, has been developing and improving his aquaculture systems since the 1960's. The company has a closed cycle aquaculture facility for the production of crawfish as laboratory animals plus the production of ornamental water plants. The company is moving toward crayfish as a mass produced food. Mr. Le Blue has developed techniques for handling and shipping crawfish out of water for several days.

For further information contact : Jim Bowman, 1011 41st Street, Santa Cruz, Calif. 95062 (phone 408-462-0505).