

INTERNATIONAL ASSOCIATION  
OF ASTACOLOGY  
I. A. A.



VOLUME 5, Number 3

# NEWSLETTER

## NEWS ABOUT MEMBERS

Jay V. HUNER of Southern University in Baton Rouge, Louisiana has accepted a position of Visiting Scientist at the University of Kuopio, Kuopio, Finland for the 1982-83 Academic year.

Charles GOLDMAN is coauthoring a textbook on limnology for McGraw Hill Publishing Company; the text will be available August, 1982.

## NECROLOGY

We are deeply saddened by the untimely passing of James NOLFI in February of 1981. Jim was a regular contributor to the IAA symposia and presented a paper at the Davis meeting in August. Jim had a quick wit, a pleasant smile, and a genuine concern for his fellow man. He significantly touched the lives of many through his teaching and research. We shall miss him.

## SYMPOSIUM VI: IAA

Stellan KARLSSON reports that the local organizing committee in Lund has selected August 13-15, 1984 (Monday thru Wednesday) as meeting dates for IAA Symposium VI. The meeting will occur at the University of Lund, Sweden and post-congress tours are planned for the remainder of the week. A provisional program will be published later this year.

## COMMUNICATIONS FROM MEMBERS

Charles GOLDMAN reports that publication of the Proceedings (Volume V) from the California Davis meeting (Summer, 1981) is coming along well. Currently the editing phase is near completion, and edited versions will soon be mailed to the authors. Dr. Goldman notes that two extra papers will appear in this volume. The first, by N.M. MORRISSEY who studies marron culture; Noel was unable to attend the meetings. The second is an older paper submitted to Ecology by Sture ABRAHAMSON and was in the hand of the editor at the time of Sture's death.

Robert FRANCE is currently involved in assembling information regarding the status of toxicological studies of anthropogenic pollution on crayfish. If members know of working drafts of manuscripts or relatively obscure references on this subject, he would appreciate learning about them. Bob is preparing a review article along with recommendations and indicates that the publication will be in the form and style of Sprague, 1976 in Volume 33 of the Journal of the Fisheries Research Board of Canada. Bob's address is given on the list of members with this issue.

Stellan KARLSSON reports two projects on crayfish production in Sweden. These projects are in the planning stages. In one Pacifastacus leniusculus will be raised in outdoor ponds using water from a river. A second project will produce a combination of salmonid fishes, turbot, freshwater prawns (Macrobrachium rosenbergii), and P. leniusculus using heated waste water from a nuclear power plant.

## ORGANIZATION NEWSLETTERS

In March the Louisiana Crawfish Farmers' Association issued the first number of its newsletter entitled "Crawfish Tales." The publication, an interesting collection of articles, advertising, and recipes, is available for an annual subscription of \$5.00. Payment should be made to the Louisiana Crawfish Farmers' Association, P.O. Box 91544, Lafayette, La. 70504. Some examples of titles in volume one are: "Research Methodology at the University of Southwestern Louisiana Crawfish Research Center," "Current Crawfish Research," "The Signal Crawfish from California," and "The National Species Plan."

In March the Crustacean Society issued the first edition of its newsletter entitled "The Ecdysiast." The newsletter is available to all members of the Society, and information on joining appears in previous issues.

## LITERATURE: AUSTRALIAN CRAYFISHES

Peter GREENAWAY sent the following list of recent papers published on Australian crayfishes. They are given in the computer literature search style as received:

Recent Literature on Australasian Crayfish

Carpenter, A. (1977) Zoogeography of the New Zealand freshwater decapoda, a review. *Tuatara*, 23, 41-8.

Fellows, F.C.I. and Hird, F.J.R. (1979) Nitrogen metabolism and excretion in the freshwater crayfish *Cherax destructor*. *Comp. Biochem. Physiol.* 64B, 235-8.

Fordham, R.A., Kelton, S.D., Leersnyder, H. and Lo, P.L. (1979) Subalpine Koura, *Paranephrops planifrons* (Decapoda) in Tongariro national park, New Zealand. Geographic implications. *N. Z. J. Mar. Freshwat. Res.*, 13, 443-6.

Greenaway, P. and Lawson B. (1982) Sodium balance in the Australian crayfish *Cherax destructor*, *Euastacus kierensis* and *E. spinifer* (Decapoda: Parastacoidea). *Aust. J. mar. Freshwat. Res.*, 33. In Press.

Jeffrey, P.D. (1979) Hemocyanin from the Australian freshwater crayfish *Cherax destructor*. Electron microscopy of native and reassembled molecules. *Biochemistry*, 18, 2508-13.

Jeffrey, P.D., Shaw, D.C. and Treacy, G.B. (1976) Hemocyanin from the Australian freshwater crayfish *Cherax destructor*. Studies of two different monomers and their participation in the formation of multiple hexamers. *Biochemistry*, 15, 5527-33.

Jeffrey, P.D., Shaw, D.C. and Treacy, G.B. (1978) Hemocyanin from the Australian freshwater crayfish, *Cherax destructor*. Characterization of a dimeric subunit and its involvement in the formation of the 25s component. *Biochemistry*, 17, 3078-84.

Jeffrey, P.D. and Treacy, G.B. (1980) Hemocyanin from the Australian freshwater crayfish *Cherax destructor*: oxygen-binding studies of major components. *Biochemistry*, 19, 5428-33.

Jones, J.B. (1980) Freshwater crayfish *Paranephrops planifrons* infected with the microsporidian *Thelohania*. *N.Z. J. Mar. Freshwat. Res.*, 14, 45-6.

Jones, J.B. (1981) Growth of two species of freshwater crayfish *Paranephrops* spp. in New Zealand. *N.Z. J. Mar. Freshwat. Res.*, 15, 15-20.

Lake, P.S. and Newcombe, K.J. (1975) Observations on the ecology of the crayfish Parastacoides tasmanicus (Decapoda; Parastacidae). Aust. Zool., 18, 197-214.

Marlborough, D.I. (1979) Spectroscopic studies on the urea denaturation of hemocyanin from the Australian freshwater crayfish Cherax destructor. Arch. Biochem. Biophys., 196, 248-54.

Mills, B.J. and Lake, P.S. (1975) Setal development and moult staging in the crayfish Parastacoides tasmanicus (Erichson), (Decapoda; Parastacidae). Aust. J. mar. Freshwat. Res., 26, 103-7.

Mills, B.J. and Lake, P.S. (1976) The amount and distribution of calcium in the exoskeleton of the intermoult crayfish Parastacoides tasmanicus (Erichson) and Astacopsis fluviatilis (Gray). Comp. Biochem. Physiol., 53A, 355-60.

Mills, B.J., Suter, P. and Lake, P.S. (1976) The amount and distribution of calcium in the exoskeleton of intermoult crayfish of the genera Engaeus and Geocherax. Aust. J. mar. Freshwat. Res., 27, 517-23.

Mills, B.J. and Geddes, M.C. (1980) Salinity tolerance and osmoregulation of the Australian freshwater crayfish Cherax destructor Clark (Decapoda; Parastacidae). Aust. J. mar. Freshwater. Res. 31, 667-76.

Monroe, R. (1977) A new species of Euastacus (Decapoda: Parastacidae) from North Queensland. Mem. Qd. Mus., 18, 65-7.

Morrissy, N.M. (1973) Normal (Gaussian) response of juvenile marron, Cherax tenuimanus (Smith) (Decapoda: Parastacidae), to capture by baited sampling units. Aust. J. mar. Freshwat. Res., 24, 183-95.

Morrissy, N.M. (1974) The ecology of marron Cherax tenuimanus (Smith) introduced into some farm dams near Boscabel in the Great Southern area of the wheatbelt region of Western Australia. West. Aust. Mar. Res. Lab. Fish. Res. Bull. No. 12, 1-55.

Morrissy, N.M. (1975) Spawning variation and its relationship to growth rate and density in the marron, Cherax tenuimanus (Smith). West. Aust. Mar. Res. Lab. Fish. Res. Bull. No. 16, 1-32.

Morrissy, N.M. (1976) Aquaculture of marron, Cherax tenuimanus (Smith) Part 1. Site selection and the potential of marron for aquaculture. West. Aust. Mar. Res. Lab. Fish. Res. Bull. No. 17, 1-27.

Morrissy, N.M. (1976) Aquaculture of marron, Cherax tenuimanus (Smith) Part 2. Breeding and early rearing. West. Aust. Mar. Res. Lab. Fish. Res. Bull. No. 17, 1-32.

Morrissy, N.M. (1978) The past and present distribution of Marron, Cherax tenuimanus in Western Australia. West. Aust. Mar. Res. Lab. Fish. Res. Bull. 22, 1-38.

Morrissy, N.M. (1978) The amateur Marron fishery in Western Australia. West. Aust. Mar. Res. Lab. Fish. Res. Bull., 21, 1-44.

Morrissy, N.M. (1979) Experimental pond production of Marron, Cherax tenuimanus, (Decapoda: Parastacidae). Aquaculture, 16, 319-44.

Morrissy, N.M. (1980) Production of marron Cherax tenuimanus in Western Australian wheatbelt farm dams. West. Aust. Mar. Res. Lab. Fish. Res. Bull., 24, 1-80.

Murray, A.C. and Jeffrey, P.D. (1974) Hemocyanin from the Australian freshwater crayfish Cherax destructor. Subunit heterogeneity. Biochemistry. 13, 3667-71.

Newcombe, K.J. (1975) The pH tolerance of the crayfish Parastacoides tasmanicus (Erichson) (Decapoda, Parastacidae). Crustaceana 29, 231-234.

Quilter, C.G. (1976) Microsporidan parasite Thelohania contijeani. New record from New Zealand freshwater crayfish. N.Z. J. Mar. Freshwater Res., 10, 225-231.

Richardson, A.M.M. and Swain, R. (1980) Habitat requirements and distribution of Engaeus cisternarius and three subspecies of Parastacoides tasmanicus (Decapoda: Parastacidae), burrowing crayfish from an area of south-western Tasmania. Aust. J. mar. Freshwat. Res. 31, 475-84.

Riek, E.F. (1967) The Tasmanian freshwater crayfish genus Parastacoides (Decapoda: Parastacidae). Aust. J. Zool. 15, 999-1006.

Riek, E.F. (1969) The Australian freshwater crayfish (Crustacea: Decapoda: Parastacidae), with descriptions of new species. Aust. J. Zool., 17, 855-918.

Riek, E.F. (1972) The phylogeny of the Parastacidae (Crustacea: Astacoidea), and description of a new genus of Australian freshwater crayfishes. Aust. J. Zool. 20, 369-89.

Sandeman, D.C. and Luff, S.E. (1973) The structural organization of glomerular neuropile in the olfactory and accessory lobes of an Australian freshwater crayfish Cherax destructor. Z. Zellforsch. Mikrosk. Anat., 142, 37-61.

- Sandeman, D.C. and Luff, S.E. (1974) Regeneration of the antennules in the Australian freshwater crayfish Cherax destructor. J. Neurobiol., 5, 475-88.
- Shireman, J.V. (1973) Experimental introduction of the Australian crayfish Cherax tenuimanus into Louisiana. Prog. Fish-Cult., 35, 107-9.
- Sumner, C.E. (1978) A revision of the genus Parastacoides Clark (Crustacea: Decapoda: Parastocidae). Aust. J. Zool. 26, 809-21.
- Suter, P.J. (1977) The biology of two species of Engaeus (Decapoda: Parastacidae) in Tasmania. I. Species description of Engaeus cisternarius, sp. Nov. Aust. J. mar. Freshwater Res. 28, 77-84.
- Suter, P.J. (1977) The biology of two species of Engaeus (Decapoda: Parastacidae) in Tasmania. II. Life history and larval development, with particular reference to E. cisternarius. Aust. J. mar. Freshwater Res. 28, 85-93.
- Suter, P.J. and Richardson, A.M.M. (1977) The biology of two species of Engaeus (Decapoda: Parastacidae) in Tasmania. III. Habitat, food, associated fauna and distribution. Aust. J. mar. Freshwater Res. 28, 95-103.
- Unestam, T. (1975) Defense reactions in and susceptibility of Australian and New Guinean freshwater crayfish to European crayfish plague fungus. Aust. J. Exp. Biol. Med. Sci., 53, 349-59.
- Wong, T.M. and Freeman, R.F.H. (1976) Osmotic and ionic regulation in different populations of the New Zealand freshwater crayfish Paranephrops zealandicus. J. exp. Biol. 64, 645-663.
- Wong, T.M. and Freeman, R.F.H. (1976) Haemolymph concentrations of two species of New Zealand freshwater crayfish in relation to the concentration of their external media. Comp. Biochem. Physiol. 55A, 13-16.
- Wong, T.M. and Freeman, R.F.H. (1976) Seasonal and thermal effects on the concentration of the haemolymph in New Zealand freshwater crayfish Paranephrops zealandicus White. Comp. Biochem. Physiol. 55A, 17-22.
- Zeidler, W. (1982) South Australian freshwater crayfish. The South Australian Naturalist. 56, 36-43.

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