



THE ECDYSIAST

Newsletter of the Crustacean Society

Volume 16, Number 1

May 1997

Message from the President

With this edition of the *Ecdysiast*, we are welcoming new officers and board members. Alan Harvey is the newly elected Treasurer, Rafael Lemaitre assumes the position of North American Governor and Gary Poore takes over as Governor of the Indo-Pacific region. In other election results, Frank Barnwell continues in his position as Secretary and Pierre Noël continues as European Governor. At the 1996 winter business meeting of The Crustacean Society (TCS) in Albuquerque, New Mexico, long-time board members Denton Belk and Dorothy Skinner were recognized for their service to TCS. Denton and Dorothy set a standard of dedication to the Society that will be hard to top!

Regrettably, the Board learned that another long-time dedicated Board member, Dr. Arthur Humes, will no longer continue as Editor of the *Journal of Crustacean Biology* (JCB) after 1999. Dr. Humes has served in that capacity for 17 years and has seen the journal gain acceptance internationally as an excellent outlet for publication of research on Crustacea. The Board is now searching for a dedicated person to take over as Editor of the JCB. An announcement describing the position is included in this newsletter (see p. 3). Because the JCB is such a major focus of the Society, it will be very important to have a qualified person assume these editorial duties. If you have a serious interest in this position, don't hesitate to contact me for additional information.

At the Albuquerque meeting, the Board voted on several issues

of interest. A financial commitment of \$6000 by TCS to help sponsor the 1998 ICC-4 conference in Amsterdam was approved. A TCS sponsored Plenary Session will be part of the Conference as will awards for students. The Board also approved establishing a Conservation Committee which Denton Belk will help

organize. This committee will consider issues in crustacean conservation such as biodiversity, habitat destruction and other threats to crustacean populations. Individuals interested in serving on this committee should contact Denton. The highlight of the business meeting was a presentation of the Excellence in Research Award to Dr. Charlotte Mangum. Lou Burnett accepted this award in her behalf

and described her many achievements in crustacean biology and her leadership role in the scientific community. Dr. Mangum was also honored as Past President of the Society of Comparative and Integrative Biology (SICB) in a special session at the Albuquerque meeting.

I also had the pleasure of attending a joint executive meeting of TCS, SICB, the American Microscopical Society and the Animal Behavior Society. We discussed ideas to improve affiliate society visibility at the winter meetings of SICB, ways to encourage student participation at the meetings, and ways to improve membership. The Albuquerque meeting was the first attempt to organize the contributed paper sessions thematically rather than by affiliate societies. Tom Wolcott, TCS Program Officer, is continuing to work with SICB in expanding the themes for sessions and is planning symposia for future meetings. As he noted in the last newsletter, inclusion of symposia provides an excellent way to enhance meeting attendance and ignite ideas. Please consider organizing a symposium around a topic that interests you at one of the upcoming meetings. I know that Tom would like to hear your ideas!

It appears that the Mobile meeting in May is shaping up to be a big event. Two symposia (Austin Williams and Biodiversity of Latin American Crustaceans) are planned as well as contributed oral and poster presentations. Richard Modlin and Ken Heck are busy with plans for the first ever TCS auction (see p. 3). The auction will benefit the summer meeting fund which provides seed money for future meetings of TCS.

TCS Seeking New Editor for JCB

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Meeting participants are encouraged to bring appropriate and inappropriate items to be auctioned by the Ragin' Cajun Darryl Felder. The meeting and events associated with it should be exciting! I look forward to seeing you in Mobile.

Elizabeth Wenner
TCS President



Joint TCS/SICB Winter Meetings

The Crustacean Society met with the Society of Integrative and Comparative Biology and other affiliated societies from Dec. 26-30, 1996, in Albuquerque New Mexico. The meetings were, as usual, a stimulating mix of all kinds of biology with a number of very exciting symposia. (One of my major frustrations was having meetings as both TCS Program Officer and SICB Secretary, and thus missing many sessions I really wanted to take in.) The Biomechanics

symposium in honor of Steve Wainwright on his retirement was, for me, a real highlight. It epitomized the intent and flavor of SICB and its meetings – to truly compare and integrate biological principles across taxa and disciplines – ranging from vertebrates up to inverts, molecules to whole organisms.

SICB presents great opportunities for those of us who grew up being crustacean biologists, and those of us who grew up something else and now work with



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crustaceans, and even those of us who still haven't grown up. Not only can we find out what's interesting in other disciplines, but we also can see how what we're doing is relevant, important and potentially interesting to folks outside crustacean biology. The intellectual stimulation is great, and so is the enhanced ability to "sell" our manuscripts and proposals to a broader reviewership by placing them into a broader context. The basic philosophy of TCS and its journal, to address a broad variety of biological principles using crustaceans as the model systems, reflects our origins as a bud from SICB (the "Crustacean Club" sprouted in the American Society of Zoologists). Following that philosophy has won both TCS and its journal widespread respect. Our alliance with SICB continues to be a synergistic one, helping further TCS's goals by broadening and deepening our membership and expertise in crustacean biology.

As a biologist with a foot in each society (indeed, with each foot in the leg irons of an officership), I encourage TCS members who are not currently members of SICB to join it, and to attend the winter meetings. The benefits are substantial, and now that the timing has been shifted to after Jan. 1, the interference with family life is minimal. Besides, if we don't participate, our crustaceans will be under-represented and may pout their maxillipeds at us. An application form for SICB is attached at the end of this newsletter.

For our future summer and winter meetings, several symposia are under development. The pipeline is rather long, so it's important that we get some more initiated toute suite. Once again I encourage you to consider contributing to the advancement of crustacean biology, and to its (and your) profile among the international community of crustacean and non-crustacean biologists, by bringing together your colleagues and presenting an intensive look into a hot area of research. We have the luxury of two different types of venue – the summer meetings, which are pretty exclusively crustacean

in subject matter, and the winter meetings with SICB. I am particularly eager to see proposals for symposia that focus on Crustacea to shed light on principles or processes that are important across all of biology. We are pretty well coordinated with SICB now, and I hope to be able to move promptly on the suggestions I receive. Which means, of course, that the ball is in your court! I look forward to your returns.

Tom Wolcott
TCS Program Officer

Assistance Fund

At the December TCS meeting in Albuquerque, the TCS Board voted to establish a Meeting Assistance Fund to help provide travel funds for individuals who might otherwise not be able to attend a TCS meeting. Over the next several months we will determine eligibility criteria, application procedures and financial contribution procedures for this fund, so stay tuned.

Alan Harvey
TCS Treasurer

TCS Auction

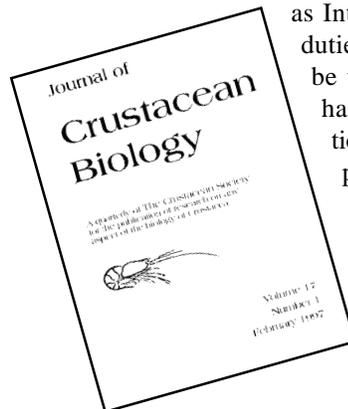
Because of the of books, journals, and reprint collection graciously donated to The Crustacean Society by Dr. Tony Provenzano, we are going to

Auction to Benefit the Crustacean Society

have an auction at the Summer Meeting in Mobile to raise money for our society. The auction is scheduled during the Friday evening outing at the Dauphin Island Sea Lab. We would like those attending the meeting to bring or provide some items (books, t-shirts, posters, prints, fishing equipment, sampling gear, or any usual or unusual items) that could be placed in this auction. Most importantly, bring your checkbook, cash, and a shot of adrenaline, so you too can enjoy the excitement of this event. Auction items can be placed in open or closed bid. Dr. Darryl Felder has graciously agreed to act as our prime Auctioneer. So come and enjoy. Any questions can be directed to Dr. Richard Modlin via e-mail at modlinr@email.uah.edu or by telephone at 205-890-6450.

Board Seeks Editor for JCB

The Board of The Crustacean Society has received word from Dr. Arthur Humes that he will no longer serve as Editor of the *Journal of Crustacean Biology* beyond 1999. Therefore, the Board is seeking an individual to serve as Interim Editor in 1998 and to assume the full duties of Editor in 1999. This individual should be well versed in the field of carcinology and have excellent writing, editing and organizational skills. Other helpful qualifications for the position include strong institutional support, ability to devote necessary time to the position, and access to a large science library. Support for a paid editorial assistant will be provided. If you are interested in this position, please contact Elizabeth Wenner at (803) 762-5050 or via email at: wennere@cofc.edu for further information.



Global & Regional News

Second International Aquatic Isopod Conference

POSTPONED UNTIL 1998

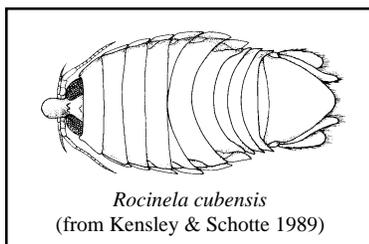
With much regret we announce that, due to uncertain attendance and low preliminary registration, the Second International Isopod Workshop/Conference has been postponed until Summer 1998.

Although we have applied for NSF support for travel costs of attendees, the result of our application will only be known in mid-May 1997, too late for those who must make reservations for May 1997 and who have no other source of support.

Rather than have a meeting with low attendance, we think that having a full year to find funding, organize schedules, and prepare manuscripts will allow all interested researchers to attend, especially if the meeting takes place in Europe.

The Isopod Conference will therefore be held in conjunction with the IVth International Crustacean Congress in Amsterdam, in the summer of 1998. Prof. Fred Schram has agreed to publish the proceedings of the Isopod Conference in Balkema's CRUSTACEAN ISSUES (which will allow us to be more expansive in our papers).

Our thanks are due to all who provided feedback on the conference, and to those who promised to attend. Your encouragement has persuaded us that such a conference is indeed needed, so we look forward to receiving further suggestions and comments, and to seeing you in the Netherlands. An announcement of the specific new dates will be forthcoming. (Rick Brusca, Brian Kensley, Bob George)



Rocinela cubensis
(from Kensley & Schotte 1989)

Latin America

Marine Sciences Library in Mazatlan, Mexico

The "Dra. Maria Elena Caso Munoz" Library in Marine Sciences of the Mazatlan Research Station, Sinaloa, Mexico (SE Gulf of California) recently increased its room and shelf capacity. The Library is looking forward to increasing its holdings and is seeking support from Universities, Libraries, and scientists abroad. We are particularly interested in small or large series of issues of journals dealing with any marine science subject (biology, ecology, fishery, etc.). More than 60% of holdings are currently obtained through donation or exchange; however, we still need to improve our journal collections, and in some cases back issues are badly needed. Series of reprints dealing with one particular subject are also welcome. Do you want to get rid of some duplicates or issues you don't need? Please get in touch with us and we will let you know how you can help. Every donation will be officially acknowledged. Thank you. Please contact:

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Estacion Mazatlan UNAM
P.O. Box 811, Mazatlan, 82000
Sinaloa, Mexico
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Brazilian Aquaculture Trade Fair

Gessulli Eventos Ltda. and Royal Dutch Jaarbeurs are pleased to announce IFA '97, the first annual trade fair for aquaculture and fish breeding technology. It is Brazil's only trade event for aquaculture products. IFA '97 will take place at Expo Centre Norte in Sao Paulo from October 15-17, 1997. The exhibition focuses on all aspects of fish farming from breeding and processing to transportation and packaging.

Brazil's diverse climates combined with its abundance of coastal waters and inland seas make it one of the world's largest potential aquaculture markets. Due to overfishing, the fear of mercury contamination, and the unpredictable nature of capture, fishing experts predict that aquaculture will account for 90% of Brazil's fish and seafood supply. Aquaculture has already had a powerful effect on the market as domestic demand and consumption are rising dramatically.

IFA '97 is an excellent opportunity for companies to enter this promising market. With a population of 160 million and a low annual fish consumption, the opportunities for growth are tremendous. There is a high demand for products, equipment, pharmaceuticals and technologies that improve fish and seafood breeding. Now is the time for suppliers of these products to establish their positions and to benefit far into the future.

Visitors and exhibitors will get a comprehensive view of everything happening in the Brazilian market. In addition to the trade fair, there will be a seminar program and field trips to fish farms. The seminars will cover the latest trends and issues facing the industry.

IFA '97 is supported by the trade publication Panorama de Aquicultura, the Aquaculture Center at the State University of Sao Paulo, Rechfood, Prefeitura Municipal de Santos and a number of trade associations. The associations are: InfoPesca, Instituto de Pesca and Abraq. The exhibition is a joint effort between Gessulli Eventos Ltda. and Royal Dutch Jaarbeurs. For information on participation in IFA '97 in Brazil, please contact:

Royal Dutch Jaarbeurs, P.O. Box 8500,
3503 RM Utrecht, The Netherlands;
Tel: + 31 (0)30 2955 513
Fax: + 31 (0)30 2955 709
E-mail: rdjintex@worldaccess.nl
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Fax: + 55 (0)15 262 3575
E-mail: gessulli@so.dglnet.com.br

Europe

Alien Crayfish Workshop

We are very pleased to inform you that, under the instigation of several scientists, we have decided to organize the following workshop titled "The Introduction of Alien Species of Crayfish in Europe. How to Make the Best of a Bad Situation?"

The meeting will be hosted by David M. Holdich (University of Nottingham, U.K.) and Marco Vannini (Zoological Museum "La Specola," Florence, Italy), and will be held in Florence from 24-27 September 1997.

The workshop is the first attempt to analyze the distribution of alien crayfish in Europe and to assess their impact on both native ecosystems and human finances. These topics will be examined in 13 invited lectures given by: P. Henttonen, G. Chelazzi, O.V. Lindqvist, D.M. Holdich, H. Ackefors, G. Vogt, K. Soderhall, F. Gherardi, J. Arrignon, A.M. Correia, J. Skurdal, W.D. Rogers, and T. Taugbol. Additional space is available for poster presentations by other scientists.

Oral contributions are also encouraged within the Roundtable on September 27, where scenarios of the future European inland waters will be depicted. Here the discussion will be organized in two Rounds: (1) role of legislation and education to prevent the disappearance of native species and the introduction of foreign ones; (2) programme of inland water restoration and promotion for reintroduction of native species.

Fees are reasonable and will be reduced for IAA or TCS members and even more for those that are members of both societies, as well as students and accompanying scientists. A number of social events are planned, including a visit to the Grapefruit Fair in Impruneta (Chianti). And of course, Florence will welcome you with its magnificent masterpieces.

If interested, please contact: Dr. Francesca Gherardi, Dipartimento di Biologia Animale e Genetica "Leo Pardi," Via Romana 17, 50125 Florence, Italy (Tel: +39 55 2288216/22881; E-mail: gherardi@dbag.unifi.it)

Upcoming Meetings & Symposia

TCS Summer 1997 (Mobile, Alabama)

The 1997 Summer TCS Meeting will be held from May 21-24, 1997 at the Adam's Mark Hotel in Mobile, AL, USA, with an excursion to the Dauphin Island Sea Lab. The meeting will be hosted by Richard Modlin of the University of Alabama at Huntsville and Ken Heck of the Dauphin Island Sea Lab. Two symposia are scheduled, including one on Biodiversity in Latin American Crustacea and a second in honor of Austin Williams. See the November 1996 issue of the *Ecdysiast* (Vol. 15, No. 2) for full meeting details.

TCS Winter 1997-1998 (Boston, Massachusetts)

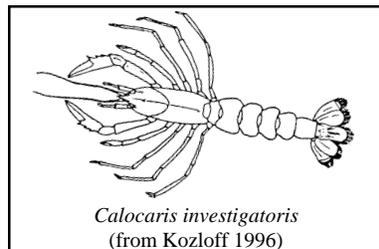
The 1997-1998 Winter TCS Meeting will be held in conjunction with SICB at the Marriott Copley Place, Boston, MA, USA during January 1998.

TCS Summer 1998 (Amsterdam, The Netherlands)

The 1998 Summer TCS Meeting will be held from July 20-24, 1998 in Amsterdam, The Netherlands in conjunction with the 4th International Crustacean Congress (ICC 4) and the 3rd European Crustacean Conference. For specific details, see the announcement on pages 21-22 of the November 1996 *Ecdysiast*.

TCS Summer 1999 (Chattanooga, Tennessee)

The 1999 Summer TCS Meeting will be held in Chattanooga, TN. The meeting will be hosted by Jeff Cambell.



TCS Summer 2001 (Melbourne, Australia)

The 2001 Summer TCS Meeting will be held in Melbourne, Australia. The meeting will be hosted by Gary Poore of the Museum of Victoria.

35th Annual Meeting of the Carcinological Society of Japan November 8-9, 1997 (Shimoseki, Japan)

The 35th CSJ Meeting will be held at National Fisheries University, Shimoseki, Japan. Shimoseki City is situated on the western end of Honshu Island, and is close to Fukuoka City, Kyushu, one of the largest cities in western Japan. For further information about the meeting, please contact:

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National Fisheries University
2-7-1 Nagata-honmachi
Shimoseki 759-65, Japan
Tel: +81-832-86-5111, ext. 457, 458
Fax: +81-832-86-7435
E-mail: crustres@fish-u.ac.jp

III Symposium: Fauna and Flora of the Atlantic Islands September 21-25, 1998 (Ponta Delgada, Azores)

The symposium will be hosted by the Department of Biology of the University of the Azores. The official languages of the symposium will be Portuguese and English and information is available via the Internet (<http://www.uac.pt/congress.htm>). Interested individuals may make transport and accommodation arrangements via Agência Açoreana de Viagens (tpc.azoren@mail.telepac.pt). The preferred mode of submission of registration materials and abstracts is also through e-mail (simposio@alf.uac.pt).



Publications of Interest

Traité de Zoologie

A new volume on Crustacea in the *Traité de Zoologie* has recently been published. Overall, two volumes of the *Traité* are now available that are devoted to crustaceans, while a third crustacean volume is in preparation.

The first volume (fascicule I), published in 1994, brought together 18 chapters of general carcinological interest. The newly published second volume (fascicule II) is divided into two parts. The first part, with six chapters, is a compliment to the first volume. In it M.F. Land gives an anatomical and physi-

ological study of the various types of crustacean eyes. Polychromatism and cytogenetics are the main topics of M.-L. Cariou's paper on genetic variability. Th. Monod and L. Laubier are the co-authors of two richly-documented chapters. The first provides extensive data on the multiple habitats of Crustacea in the seas, as well as in fresh water and on the mainland; associations with different organisms are also considered. The second illustrates the various aspects of relations between crustaceans and man. Problems of crustacean parasitism are treated by J.-P. Trilles and R. Hipeau-Jacquotte, and the last general chapter, by Th. Monod and J. Forest, is a history of the classification of Crustacea, mostly from the late 18th century onwards.

The second part of the new volume, under the title "Systématique," surveys the Crustacea in a systematic order, and includes chapters by R.R. Hessler & R. Elofsson (Céphalocarides), A. Thiéry and C. Amoros (Branchiopodes I & II), Ph. Cals (Rémypèdes), G.A. Boxshall (Tantulocarides), G.A. Boxshall & D. Defaye (Mystacocarides), M. Grygier (Facetotecta and Ascothoracides), W.A. Newman (Cirripèdes), J.T. Høeg & J. Lützen (Rhizocéphales), C. Razouls

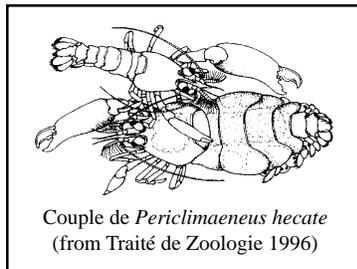
(Copépodes libres), A. Raibaut (Copépodes parasites), C. Razouls & A. Raibaut (Phylogénie et classification des Copépodes), H. Gruner (Branchiures), G. Hartmann & M.-C. Guillaume (Ostracodes), A. Mayrat & M. de Saint-Laurent (Considérations sur la classe des Malacostracés), E. Dahl & J.W. Wägele (Phyllocarides), and N. Coineau (Syncarides). Each chapter, arranged

according to a uniform scheme, gives an account of our present knowledge of the morphology, physiology, reproduction and development, ecology, distribution, phylogeny and classification of the group concerned.

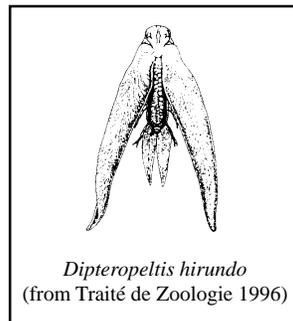
In order to obtain the following books, or for further information on these or other volumes in the *Traité de Zoologie*, please direct your inquiries to: Editions Masson, 5, rue Laromiguière, 75005 Paris, France.

Traité de Zoologie, Tome VII – Crustacés: Fascicule I – Morphologie, Physiologie, Reproduction, Embryologie. 1994. 917 p., 434 figs. Price: 1829 F

Traité de Zoologie, Tome VII – Crustacés: Fascicule II – Généralités (Suite), Systématique. Ed. by Jacques Forest. 1996. 1002 p., 426 figs. Price: 1950 F



Couple de *Periclimanenus hecate*
(from *Traité de Zoologie* 1996)



Dipteropeltis hirundo
(from *Traité de Zoologie* 1996)

Rare Milne-Edwards Volume

The following annotated facsimile of a rare volume by A. Milne-Edwards has recently been produced by Jacques Forest and Lipke Holthuis.

A. Milne-Edwards' Recueil de Figures de Crustacés nouveaux ou peu connus, 1883. Nouvelle édition en facsimilé avec des commentaires et annotations. J. Forest and L. Holthuis. 1997. Backhuys Publ., Leiden, The Netherlands. 128 p. Price: \$83.20.

The book contains illustrations of animals original described but not previously figured by Milne-Edwards. This new release offers something very few workers have had, a chance to see the original illustrations of species they may routinely encounter. These figures are provided on 44 facsimile plates, and combined with the authors' comments and annotations, form a valuable tool for crustacean folk. The publisher indicates the edition is limited, so interested parties should inquire soon. It can be ordered from Backhuys Publishers, P.O. Box 321, 2300 AH, Leiden, Netherlands, or via e-mail at backhuys@euronet.nl.

Benthic and Pelagic Shrimps of Pacific Mexico

The following books have recently been published by the CONABIO (Comisión Nacional para el Conocimiento y Uso de la Biodiversidad, México) and the Instituto de Ciencias del Mar y Limnología, UNAM (Autonomous National University of Mexico).

Los Camarones Penaeoidea Bentónicos (Crustacea: Decapoda: Dendrobranchiata) del Pacífico Mexicano. M.E. Hendrickx. 1996. CONABIO/UNAM. 147 p., 2 plates.

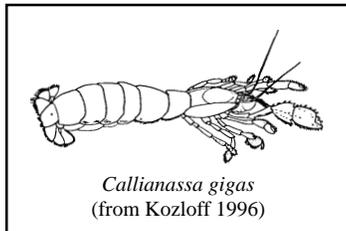
Los Camarones Pelágicos (Crustacea: Dendrobranchiata y Caridea) del Pacífico Mexicano. M.E. Hendrickx and F.D. Estrada Navarrete. 1996. CONABIO/UNAM. 157 p.

Both books are written in Spanish and include keys to families, genera and species known from the area (31 species of benthic Penaeoidea and 52 species of pelagic shrimps). For each species, the following data are provided: synonymy, material examined, characteristics, localities reported for the east Pacific, type locality, geographic and bathymetric distributions, and comments. All species are illustrated and a map with all known sampling localities (new and published data) is available for each species. Results are briefly discussed at the end of each volume.

Both books are available free of charge to Institutions, Libraries, Departments and Laboratories involved in the study of marine crustaceans or invertebrates, or marine life in general. Requests should be sent to Dr. Michel E. Hendrickx (E-mail michel@mar.icmyl.unam.mx; Fax 69-826133, Mexico). Shipping cost should be paid by the petitioner (about 7.0 US\$ per book for USA, Canada and Latin America, air mail; about 20.00 \$MN within Mexico, air mail).

Marine Invertebrates of the Pacific Northwest

Eugene N. Kozloff's book on Pacific Northwest Marine Invertebrates is now available in a paperback edition, and is thoroughly updated with 30 pages of additions and corrections. This work provides a systematic treatment of almost every group of marine invertebrates of the Pacific Northwest. Close to 4,000 species are covered and many are illustrated by photographs or drawings. The greatly updated section on changes in amphipod taxonomy will be of special interest to carcinologists. Developed over a period of more than 30 years by zoologists associated with the Friday Harbor Laboratories of the University of Washington and several other institutions,



the keys, taxonomic lists, and bibliographies are relevant to invertebrates of intertidal and shallow subtidal habitats between southern Oregon and the Queen Charlotte Islands of British Columbia. Wherever possible, the keys are based on obvious characteristics.

The book is essential for students of invertebrate zoology, marine biology, marine ecology, and fisheries ecology, and will be useful to institutions and individuals concerned with aquatic biology, pollution studies, and environmental impact studies. A full citation is given below.

Marine Invertebrates of the Pacific Northwest. E.N. Kozloff. 1996. Univ. Washington Press, Seattle and London, 539 p. (ISBN 0-295-97562-8)

Fauna and Flora of Southeast Alaska's Rocky Shores

The following book on the seaweeds and lichens of Southeast Alaska is now available, while a companion volume on the animals of the region is currently in preparation. Both books should be valuable to students, scientists, and anyone else interested in the natural history of rocky shores.

Southeast Alaska's Rocky Shores: Seaweeds and Lichens. R.M. O'Clair, S.C. Lindstrom, and I.R. Brodo. 1996. Plant Press, AK. Price: \$19.95.

"Seaweeds and Lichens" provides detailed descriptions of 83 species of seaweeds, 30 species of lichens, 1 moss and 2 seagrasses, plus a chapter devoted to favorite seaweed recipes. Each species description includes current and former scientific names, common names, geographic distribution and location on the shore, as well as comprehensive anatomical, physiological and ecological information. Local artists contribute over 100 exquisite illustrations. A complete species list, bibliography and index are included,

while a glossary is integrated with the text.

To order a copy of SARS:Seaweeds and Lichens, please contact the publisher directly at: Plant Press, P.O. Box 210094, Auke Bay, AK 99821-0094.

A companion volume on the animals inhabiting the rocky shores of SE Alaska is also in preparation. This book should be of special interest to carcinologists, and will include information on a number of copepods, barnacles, amphipods, isopods, crabs and shrimps. This book will hopefully be available sometime in late 1997 to early 1998.

Zoea

Zoea is a newsletter rather than a scientific journal and is intended for all workers interested in crustacean larval development. Publication started in January 1994. Since this moment, more than 1000 issue copies have been distributed worldwide. At present, it is published twice yearly, in spring and autumn.

Primary contents of *Zoea* include short communications, announcements, request for information, lists of recent publications, posters and oral presentations in meetings, works in progress, abstracts of doctoral theses, and a research directory.

Zoea will hopefully serve as both "a platform for fruitful discussion and exchange of ideas among carcinologists interested in aspects of larval development," as Klaus Anger proposed in the newsletter's inaugural issue, and a clearinghouse of information regarding both research and researchers.

At present, most of *Zoea* members are working on decapod larvae (61%), followed by those studying copepod larvae (8.4%), zooplankton (5.2%), cirripeds (3%), mysids (1%) and others (20%). Geographically, they are distributed as follows: Europe (38%), Asia (29%), North-America (21%), South-America (11%), Oceania (4%) and Africa (3%). As you can see, it would be desirable that *Zoea* be distributed to a wider array of specialists interested in the larval biology of other crustacean groups as well. *Zoea's*



scope is very broad with respect to taxonomy (all of Crustacea), geography (worldwide) and biological discipline.

Subscription to *Zoea* (15 U.S. \$ or 1000 Spanish pesetas per year) is possible by: personal check (U.S. Bank), international postal giro, or credit card (VISA or MASTER-CARD).

For more information, please don't hesitate to contact the editors or regional editors.

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From the Editor

The Crustacean Society depends on its members and interested nonmembers for supplying the information and news published in the society's newsletter. Any comments, suggestions, or criticisms regarding this or future issues will be greatly appreciated. Meanwhile, please keep the contributions coming.

The *Ecdysiast* is published twice a year, mailed with the May and November issues of the *Journal of Crustacean Biology*. Submissions for the spring (May) newsletter should be in by mid-March, while those for the fall (November) newsletter should be in by mid-September. Anything of interest to the TCS membership is welcome, including notices of upcoming meetings and symposia, regional updates, research and job opportunities, important research findings, new publications, other related societies, and basically all things crustacean. Although contributions may be submitted in any form, electronic submissions (i.e., e-mail, on disk) are strongly encouraged. This saves the editor an enormous amount of time and minimize transcription errors in the process. Graphical images should be submitted on disk or camera-ready copy by mail. Camera-ready graphics will probably be scanned into the final document. Please specify the software used (e.g., Wordperfect 6.1 windows, Word 5.1 Mac, Photoshop 3.0, etc.) or type of file (e.g., EPS, TIFF, etc.) for material submitted on disk. This edition of the newsletter was prepared using PageMaker 6.0 for the Mac; graphics were scanned in using Deskscan, and then modified using either Desktopaint or Photoshop. Submit all materials directly to the editor via e-mail or at the address listed at the bottom of page 1 of this newsletter (Tim Stebbins, *Ecdysiast* Editor, tds@sddpc.sannet.gov or tds@mwharbor.sannet.gov).



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