



# CHRYSOMELA newsletter

*Dedicated to information about the Chrysomelidae*

Report No. 37

April 1999

## INSIDE THIS ISSUE

- 2-Editors Corner
- 2-Notes Up Front
- 3-New Baja Insect Collection
- 3-CICESE Contact Information
- 4-Polymorphism in Bruchidae and Chrysomelidae
- 5-PI.M.E. Update
- 5-Chrysomelidae in Chicago's Field Museum of Natural History
- 6-Hispinae of Lab Selva
- 6-ICIPE Online Catalogue
- 6-Catalogo Insectos Nicaragua
- 7-16th NA Chrysomelidists
- 7-FISCB Notice
- 8-Specimens Needed
- 8-Literature Needed
- 9-Recent Chrysomelid Literature
- 11-CHRYSOMELA Mailing List
- 15-CHRYSOMELA Address List

## Ensenada, Baja California, MEXICO: CICESE Formal Dedication



Formal dedication of the Entomology Collection at CICESE headquarters. *from left:* Ernesto FRANCO (CICESE Researcher), Horacio de la CUEVA (Collection Contact), Jesús PANIAGUA (Dir. of the Division of Oceanography), Rich MINNICH (UC-Riverside), Bill CLARK (Collection Contact), Jaime FARBER (Head, CICESE/Dept. Ecology). (story, page 3)  
—Photo by Mary Clark

## Research Activities and Interests

**Wolfgang Baese** (Wittenberg, Germany) continues to work and assemble information on the faunistics and biology of the middle European species of Donaciinae. Has "Red" list of endangered species of subfamily Donaciinae of the district of Saxony-Anhalt.

**Grace Barroga** (Selangor, Malaysia) commencing a PhD program study on the revision of the genus *Aulacophora* in Southeast Asia under the supervision of Prof. Mohamed S. Mohamedsaid.

**Laurence D. Chandler** (Brookings, USA) is generally interested in IPM in agronomic systems; currently working

on areawide management of Western & Northern corn rootworm in corn/soybean production systems; plans for future studies include the interaction of W. & N. CRW larvae, and evaluation of transgenic corn for rootworm rot.

**William H. Clark** (Caldwell, USA) "I am starting an entomology collection at CICESE in Ensenada, Baja California, Mexico. As far as I can determine, there are no other collections in Baja" (see information above and page 3).

**Dang Thi Dap** (Hanoi, Vietnam) continues to write on some of the subfamilies and genera of chrysomelids of Vietnam.

**Catherine N. Duckett** (San Juan, Puerto Rico) continues to work on the oedionychines and is willing to identify New World Oedionychina.

**Blagoy Grujev** (Plovdiv, Bulgaria) currently working on a supplement to *General Distribution of the Flea Beetles in the Palaearctic Subregion*. All new information and data by colleagues is welcome!

**Michael Langer** (Lichtenwalde, Germany) is interested in Galerucinae with a special interest in *Diabrotica*, *Neobrotica*, and *Cerotoma*.

**Steve Lingafelter** (Washington, USA) Research projects include:

(continued page 8)

# THE EDITOR'S CORNER

Terry N. Seeno, Sacramento

It's time for the FORUM to investigate a new subject. We've managed to explore most of the nooks and crannies of bruchids vs. chrysomelids, so let's move on to something new. Sincere thanks to John Kingsolver for sitting in the 'hot seat' and writing the FORUM's first article (CHRYSEMELA no. 30, 1995).

Possibly, the next round of discussions could center on something of a nontaxonomic nature. Some suggestions recently sent to me include:

● **Working as a Visiting Scientist at Other Institutions** — All of us, at some time, have either visited or borrowed material from another institution. If so, what kind of treatment did you receive? Were you allowed full access to the collections, and able to borrow the necessary material to complete your revision? Or, were you treated like an intruder with limited access and borrowing privileges? Which museums are the

best, which are the worst, and why?

● **Bench Fees** — This is another disturbing trend that seems to threaten and restrict the progress of science. Which institutions are charging fees? If so, has this restricted progress on your research?

● **Specimen copyright** — Any of you that have read *Lepidoptera News* know that over six pages in the last issue were devoted to this controversial subject.

These are just a few suggestions to get the ball rolling. Don't be shy. These items should be discussed, and what better place to talk about them than in your newsletter and with your colleagues. All contributions on all subjects are welcome.

## Twenty Years of CHRYSEMELA

August 15, 1979 is the 20th anniversary of the newsletter CHRYSEMELA.

We didn't run photographs until the 4th issue, but we'll run some of the old ones in the next issue just to see what we looked like 20 years ago! If you have some historical photos or information, share it with your colleagues.

## US National Museum Website Update

The searchable database for Chrysomelidae of the National Museum of Natural History is up and running. Currently, the alticines, cassidines, aulacoscelines, and chlamisines are on the web. Remaining subfamilies will slowly be added over the next several years. This database allows the user to search our collection by species, author, country, or U.S. state, among other options. Please contact me for the current URL. —Steve Lingafelter <slingafe@sel.barc.usda.gov>

## Bishop Museum Website Update

This is just to let you know that the Bishop Museum website, [www.bishop.hawaii.org/bishop/natsci/ng/ngecol.html](http://www.bishop.hawaii.org/bishop/natsci/ng/ngecol.html), detailing entomological and ecological research in New Guinea, has been updated. It now includes over 1,000 images of New Guinean insects, as well as an information on our recent activities in Papua New Guinea.

Any comments would be greatly appreciated. —Vojtech Novotny <novotny@bishopmuseum.org>

Congratulations to Catherine Duckett on receiving tenure at the University of Puerto Rico.

Pierre Jolivet (fully recovered from the Gobi Desert broken arm) is currently visiting in Gainesville and plans to travel to Central and South America while in this half of the world.

Shinsaku Kimoto announced his retirement effective March 31, 1999. Throughout his career, he published more than 218 publications, the majority of which focused on the Chrysomelidae. We wish him well, and thank him for a long and productive career in leaf beetles.

We have a report that Jean-Michel Maes (Museo Entomologico S. E. A.) in Nicaragua was able to prevent flooding



of the museum during hurricane 'Mitch' and that there was no damage to the collections or equipment. Unfortunately, his home received some major water damage.

R. F. Ruppel reports that he is giving up (reluctantly) on the study of *Cerotoma*, and has deposited his collection in the Entomology Museum of Michigan State University. Best wishes.

Messrs. Takizawa and Jolivet have a secret to be revealed at the ICE meeting

of Chrysomelidists in Igacu Falls, August 2000.

## Meetings and Communications

● **U.S. Chrysomelidist 17th Annual Meeting** to be held in conjunction with the Entomological Society of America meetings to be held in Atlanta, GA from December 12-16, 1998).

● **Brazil 2000 — August 20-26, 2000 - Iguassu Falls.** —For current announcements see <http://www.embrapa.br/ice>

Updates by contacting D. L. Gazzoni, President of the XXI International Congress of Entomology at: <gazzoni@npso.embrapa.br> or FAX: 55-43-371-6100 (see page 7).

The Newsletter CHRYSEMELA—Founded 1979—is published semiannually in April and October by the California Department of Food & Agriculture, Plant Pest Diagnostics Center, 3294 Meadowview Road, Sacramento, CA 95832-1448. E-mail: tseeno@ns.net; telephone (916) 262-1160; FAX (916) 262-1190. This newsletter is sent to students of the Chrysomelidae to encourage the exchange of ideas and to disseminate information on these insects. **Editor:** Terry N. Seeno, Sacramento. **Advisors:** Catherine Duckett, San Juan; Brian D. Farrell, Cambridge; R. Wills Flowers, Tallahassee; Elizabeth Grobbelaar, Pretoria; Pierre Jolivet, Paris and Gainesville; Chris Reid, Townsville; Ed Riley, College Station; G. Al Samuelson, Honolulu; Eric H. Smith, Lynchburg; Charlie L. Staines, Edgewater; and Kunio Suzuki, Toyama.

# Baja California has Entomology Collection

William H. Clark, Caldwell



Bill Clark shows CICESE visitors the insect storage drawers during open house at the formal dedication on June 12, 1998.

—Photo by Mary Clark

On June 12, 1998, the first formal entomology collection in Baja California, Mexico was dedicated in the Department of Ecology at Centro de Investigación Científica y de Educación Superior de Ensenada (CICESE) (see page 1). Bill Clark, curator of the collection, received a recent appointment as Investigador Adjunto at CICESE. Dr. Horacio de la Cueva is the contact for the collection at CICESE.

After years of collecting in Baja California, I came to the realization that there has been no appropriate collection in the peninsula to deposit voucher specimens (there is a small, mostly uncurated collection of insects at CIBNOR in La Paz, Baja California Sur). Working with the administration and researchers at CICESE, we have obtained Collection space. Currently, the collection is very small, but established and has the Museum, office equipment and supplies to begin work.

There are four CAS cabinets with drawers, workspace, microscope, small library and numerous supplies.

What we need are identified insect (or other arthropod/invertebrate) specimens that have been collected in Baja California. Please feel free to use the collection as a repository for permit purposes. The collection also makes a good place to send material collected in the past but is retained elsewhere because there was no available collection to house it in Baja California.

In the way of supplies, we currently need CAS unit trays, insect pins, entomology journals and books, and reprints and monographs that relate directly to the entomology of Baja California. Specimens and other materials can be sent to Clark for transport to Ensenada or mailed directly to CICESE (see announcement sidebar, right).



## CICESE

### Museo de Entomología

#### Centro de Investigación Científica y de Educación Superior de Ensenada, BC

#### Organismo Descentralizado de Interés Público

#### Resident Contact:

Dr. Horacio de la Cueva  
Centro de Investigación Científica y  
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(CICESE)  
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#### U. S. Contact:

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Adjunto  
CICESE Museo de Entomología  
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#### Resources:

**Collection currently has—**  
Entomology Room #128; basic curation equipment and supplies; dissecting microscope and light; basic computer system, office supplies, sorting magnifier/light; four CAS cabinets with drawers and unit trays; basic library of journals, books and reprints, desk, and work tables.

**Collection needs—** Baja California specimens, CAS unit trays (approx. one cabinet); literature (duplicate journals, basic books, Baja California related reprints), laser printer, insect pins (#2 and #4), field equipment and supplies (light trap, nets, etc.).

# Polymorphism in Bruchidae and Chrysomelidae

K. K. Verma, Durg

It is generally accepted that Bruchidae and Chrysomelidae among Phytophaga are phylogenetically closely related.

Among Bruchidae, *Callosobruchus maculatus* (F.) shows polymorphism (Utida, 1954; Caswell, 1960). There are 'normal' or 'flightless' individuals and 'abnormal' or 'flight' individuals. The latter have greater migratory capacity. Among Bruchidae, this phenomenon is not confined to *C. maculatus* (Sano-fujii, 1984); it has been studied and described in *Callosobruchus analis* (Tiway and Verma, 1989a). The various parameters in which the morphs differ have been well studied in *C. maculatus* (Utida, 1954, 1965, 1972; Southgate, et al, 1957; Caswell, 1960; Gill, et al, 1971; Taylor and Agbaje, 1974; George and Verma, 1994). These parameters in *C. analis* have been studied by Tiway and Verma, 1989a).

In some chrysomelids too, there are indications of polymorphism. Flying populations are known in *Chrysolina aurichalcea*, (Mannerheim) (Suzuki, 1978, 1981). A migratory phase has been discovered in *Leptinotarsa decemlineata* (Rankin, 1978). Wing polymorphism has been described in the alticine *Longitarsus* (Furth, 1979).

There are some points of similarity between bruchid and chrysomelid polymorphism:

1. In both groups, some species occasionally produce 'flight' forms;
2. Polymorphic bruchids show, in addition to 'flight' and 'flightless' forms, intermediate morphs. A similar situation is known in the chrysomelid *Chrysolina aurichalcea* (Suzuki, 1982);
3. In *Callosobruchus maculatus* and *C. analis*, the 'flight' individuals are relatively/fully sterile. In the chrysomelid *Chrysolina aurichalcea*, the

flying females are reproductively immature (Suzuki, 1982).

It would be interesting to make detailed comparisons between polymorphism in bruchids and that in chrysomelids with reference to such parameters as body coloration, testis follicles, size of bursa, fecundity, longevity, behavior, etc., and such data are available for polymorphic bruchids (Tiway and Verma, 1989a; George and Verma, 1994).

Tiway and Verma, (1989b) have inferred that there is a genetic basis for polymorphism in *Callosobruchus analis*.

If it is shown that polymorphism in bruchids and chrysomelids is closely comparable, it may be inferred that there are common genetic potentials in the two phytophagous groups, and that the phenomenon of polymorphism among them has been a result of close polyphyly or parallelphyly.

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**The P.I.M.E.  
An Update on the  
Museum**  
Rev. Carlo Brivio, Monza



Rev. Brivio shows us some of non-chrysomelid beetles in the P.I.M.E. collection

The P.I.M.E. (Museo Entomologico del Pontificio Istituto Missioni Estere) entomological collections now contain about 150,000 specimens, 95% of which are Coleoptera. The collection has increased three times in size since the 1994 report on the museums holdings published in *CHRYSOMELA* (no. 28). Briefly, the status of identified material is:

**Chrysomelidae**—most of the Italian species, almost all of the Cassidinae (World), and other smaller subfamily holdings.

**Carabidae**—most of the Italian species, many Oriental and USSR species, some species from China (including a new species, *Stomis brivioi* Sciaky).

**Cerambycidae**—all Italian and Oriental, as well as much of the material from South America.

**Aphodiinae**—many of the specimens in this group are identified.

**Histeridae**—mostly identified.

**Curculionidae**—the Italian species are identified and only a few of the specimens from the Philippines.

Most of the identifications were done by specialists in the group that visit the museum, who then hand-carry the more difficult to identify material back to their work sites (this also reduces the chances of damage by the postal system).

Naturally, as the collection grows, space for insect storage cabinets is becoming the biggest problem. Those of you that visited the P.I.M.E. when it was located in Detroit will remember that there was suitable space for insect cabinets, as well as work and rest areas.

The museum is growing at a good rate and progress should continue well into the next millennium.

**Chrysomelidae  
in the  
Field Museum of Natural History  
Collection**

Charlie & Suzy Staines, Edgewater

We recently spent a week working on the Chrysomelidae collection at the Field Museum of Natural History in Chicago. The chrysomelid holdings total 254 drawers. The majority of the holdings are Nearctic, but Neotropical and Palearctic regions are well represented.

Subfamily	No. drawers
Alticinae	46
Aulacoscelinae	1
Bruchinae	19
Cassidinae	15
Chlamisinae	2
Chrysomelinae	26
Clytrinae	12
Criocerinae	5
Cryptocephalinae	29
Donaciinae	4
Eumolpinae	36
Galerucinae	35
Hispinae	18
Lamprosomatinae	1
Megascelinae	1
Megalopodinae	2
Orsodacninae	1
Synetinae	1

Two major collections are part of the Field Museum holdings; the N. M. Downie collection, and a portion of the Alfieri collection. The subfamilies Bruchinae, Donaciinae, Synetinae, Orsodacninae, Megascelinae, Criocerinae, Cryptocephalinae, and Hispinae are well curated, however, the other subfamilies need additional work.

As with many large collections, much of the material is unidentified. However, most of the chrysomelids are sorted subfamily and geographic region for ease in filling loan requests.

Loan requests can be directed to: Al Newton, Associate Curator <newton@fmnh.org>; (312) 922-9410 x.263; or Phil Parrillo, Curatorial Assistant <parrillo@fmnh.org>; (312) 922-9410 x.354.

# ICIPE Library Catalogue Online

The online version of ICIPE's library catalogue includes books, monographs, reprints of publications by ICIPE personnel, and selected individual articles.

Coverage focuses on entomology, including agriculture, parasitology, public health, ecology, biodiversity, and conservation, especially related to tropical Africa. The present online catalogue includes over 4500 items entered between 1990 and November 1998; older records will be added in the future. This includes citations issued in the "Pest Management Documentation Systems and Service (PMDISS)" and "ICIPE Bulletin of Library Information and Documentation Services." <<http://www.icipe.org/icipeLibrary/icipeLibrarySearch.html>> [www.icipe.org/icipeLibrary/icipeLibrarySearch.html](http://www.icipe.org/icipeLibrary/icipeLibrarySearch.html)

## Other Online Literature Resources Available Through ICIPE

**Stemborer Information System:** <<http://www.icipe.org/stemborers/introduction.htm>> [www.icipe.org/stemborers/introduction.htm](http://www.icipe.org/stemborers/introduction.htm)

**African Entomology (Working Bibliography):** Partial bibliography of systematics and ecology of Afrotropical insects, with over 4500 citations to papers on the systematics, distribution, and ecology of insects of Africa south of the Sahara. <<http://www.icipe.org/icipedata/biodiversity/AfricaSearch.cfm>> [www.icipe.org/icipedata/biodiversity/AfricaSearch.cfm](http://www.icipe.org/icipedata/biodiversity/AfricaSearch.cfm)

**Methods of Entomological Survey and Analysis:** Some 900 citations to papers on the use of insects and other terrestrial and freshwater arthropods in biodiversity studies. <<http://www.icipe.org/icipedata/biodiversity/MethodSearch.cfm>> [www.icipe.org/icipedata/biodiversity/MethodSearch.cfm](http://www.icipe.org/icipedata/biodiversity/MethodSearch.cfm)

**African Insect Checklist (in progress):** Currently includes about 20% of the known Afrotropical insects, specifically Odonata, Ephemeroptera, Plecoptera, and Homoptera. <<http://www.icipe.org/icipedata/africachecklist/index.html>> [www.icipe.org/icipedata/africachecklist/index.html](http://www.icipe.org/icipedata/africachecklist/index.html)

**Library of Congress Nairobi Office Databases:** Two databases produced by the Library of Congress, covering all fields of knowledge, including agriculture and science: "Quarterly index to periodical literature, eastern and southern Africa" (some 18,000 citations) and West Africa periodical accessions. <<http://www.icipe.org/locnairobi>> [www.icipe.org/locnairobi](http://www.icipe.org/locnairobi)

—Scott E. Miller, Leader

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**African projects:** [www.icipe.org/environment/biodiversity\\_index.html](http://www.icipe.org/environment/biodiversity_index.html)

**New Guinea projects:** [www.bishop.hawaii.org/bishop/natsci/ng/newguinea.html](http://www.bishop.hawaii.org/bishop/natsci/ng/newguinea.html)

**Ecological data archive project www site:**  
[ecodata.sdsc.edu](http://ecodata.sdsc.edu)

# The Hispinae of La Selva Biological Station (Costa Rica)

Charlie & Suzy Staines, Edgewater

One of the target taxa of the Arthropods of La Selva Survey (ALAS) was the chrysomelid subfamily Hispinae (see CHRY-SOMELA 1996, 32:9). The original intent of the work was to produce a checklist of species. Due to the availability of technology and staff time, a web page was produced. Still under construction, the page contains scanned images and descriptions of most of the hispines collected at La Selva.

Currently, there are 29 genera and 126 species from the 1600 hectare study site (compare this to 72 known species from North America, North of Mexico). Most of the species used in the study have been identified, but those needing further study are designated as 'sp. 1', 'sp. 2', etc.

Interactive keys to tribes, genera, and species are available, as well as a summary of hispine biology and taxonomy. Each species has a separate page which includes a description, recorded biological information, and an image. Text was produced by C. L. Staines. Pages were constructed by Jack Longino. Images were scanned by Maylin Paniagua and Nelci Oconitrillo.

Visit the website at: <http://www.viceroy.eeb.uconn.edu/ALAS/ALAS.html>.

## TARIFA Catalogo de los Insectos de Nicaragua

This is a three volume set and is immediately available.

Vol. I. (500 pp.) Apterygota, Ephemeroptera, Odonata, Orthopteroidea, Homoptera, Heteroptera. 25 US \$ + postage (= \$8 Central America, \$11 N. America, \$18 Europe, \$21 Asia / Africa.

Vol. II. (700 pp.) Coleoptera. 35 US \$ + postage (= \$11 Central America, \$14 N. America, \$24 Europe, \$28 Asia / Africa.

Vol. III. (700 pp.) (in press; will be born on Christmas). Neuropteroidea, Trichoptera, Lepidoptera, Diptera, Hymenoptera, Arachnida, Acarida. 35 US \$ + postage. (= \$11 Central America, \$14 N. America, \$24 Europe, \$28 Asia / Africa.

Orders to be prepaid by cheque made to: Asociacion Nicaraguense de Entomologia, A. P. 527, Leon, NICARAGUA

The discount price of \$400.00 for the purchase of five complete sets (volumes 1-3, normal price for North America of \$90, +postage) will be offered in 1999. For discounts of five or more sets elsewhere, please write or email for information.

—Jean-Michel Maes

# The 16 th Annual Meeting of The North American Chrysomelidists



Rear, from left: Seeno Gilbert, Andrews, Furth Cavey, Reusink McClay, Hesperheide. Front, from left: Smith Riley Triplehorn, Clark, Ritz, Robertson.

## **FISCB** **Second Notice** David G. Furth, Washington

Dear Chrysomelid Colleague:

It has now been about 6 months since I last contacted you as a potential participant for the Fifth International Symposium on the Chrysomelidae in Brazil (FISCB) at the XXI International Congress of Entomology (ICE) in Iguassu Falls, Brazil (20-26 August 2000). We are now officially registered as an ICE Satellite Event (see the ICE Web Page).

The formal oral presentations (15-20 minutes each) of FISCB will be held on Friday (25 August 2000) with informal oral presentations, discussions, and poster presentations on Saturday (26 August), and a field trip all day on Sunday (27 August). Prof. Joao Vasconcellos-Neto (Universidade Estadual, Campinas, Brazil) will be the Co-Organizer and Ms. Flavia Sa will be helping to organize the field trip. This

schedule gives our colleagues who attend the entire ICE a chance to get to know each other, especially each evening at a specific restaurant, and those only attending FISCB can come for the weekend.

It is now important for you to begin planning your attendance at FISCB and it is very helpful if you can look at the ICE World Wide Web Home Page ([www.sede.embrapa.br/ice](http://www.sede.embrapa.br/ice)) which now has much information about the Congress, including registration, abstracts, hotels, travel, visas, collecting insects, tours, expeditions,, money exchange, etc.

The deadline for submitting Abstracts is 31 December 1999. To submit a formal presentation you must be registered with the ICE. However, I suggest that if you think you have a good chance to participate in FISCB,

you should plan to submit an abstract by 31 December 1999 and you should begin to plan your trip, including trying to get any financial assistance necessary.

I understand that some of you are not yet very certain whether you can participate in FISCB, however, if there is a good chance please start your planning soon. If you need an official letter of invitation for the FISCB, I (as FISCB Organizer) can send you one; however, such a letter does not promise any financial support.

As Organizer, I will need to submit a list of potential participants to the ICE Congress Organizers and to keep them continually informed of our possible program for FISCB. At this time I would like to know your idea of the possible presentation you plan to give at FISCB, including any informal oral or poster presentations.

If you do not have access to the World Wide Web or cannot find access near you, then please let me know and I can send you any information you desire concerning the ICE registration, abstracts, hotel information, visas, travel, etc. There will also be possibilities to share hotel rooms which will be cheaper, if you are interested in this let me know.

I am pleased to announce that the Fifth International Symposium on the Chrysomelidae in Brazil (FISCB) will be dedicated to one of the best known and most productive chrysomelid biologists of the 20th Century - DR. PIERRE JOLIVET. As with previous Chrysomelid Symposia we are planning to publish the Proceeding of FISCB.

Please let me know your possible FISCB plans at your earliest convenience. We look forward to a very productive and fun event in Brazil next year.

—David G. Furth, Organizer FISCB  
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## Research Activities and Interests (cont. from page 1)

Revision of Palearctic *Chaetocnema* (with A. Konstantinov, a two year project), and Revision of world *Psylliodes* (longterm project).

**Yuri Mikhailov** (Novouralsk, Russia) is interested in population ecology, variability and polymorphism of natural populations, faunistics, and systematics of Palearctic Chrysomelidae (mainly Cryptocephalinae).

Currently completing his thesis on the structural-hierarchical approach to the polymorphism in the Chrysomelidae (mostly *Cryptocephalus*). The work was started as a student and continued as a postgraduate. Polymorphism of a large number of Palearctic species of *Cryptocephalus* were used from many collections in Russia, both public and private as well as exchange materials.

Also working on Chrysomelidae of the Urals. Planning to work on alpine species from montane tundra. Willing to identify *Cryptocephalus* and *Chrysolina* from the Palearctic region.

**D. R. Nash** (Brantham, UK) currently producing a new *Coleoptera of the County of Suffolk* to replace that of 1899. It will be published by the Suffolk Naturalists' Society. Also, mapping species in under recorded areas of Suffolk.

**Nguyen Thi Phuong Lien** (Hanoi, Vietnam) graduated from Hanoi Agricultural University No. 1 in 1995. She is currently working on a chrysomelid project with Dr. Dang Thi Dap, and is looking for scholarship opportunities for a Masters Degree in either Europe or the US. Anyone having information regarding available scholarships or programs, please contact Miss Nguyen through Dr. Dang's email address.

**Chris Reid** (Canberra, Australia) continuing work on various chrysomelid projects including systematics of Chrysomeloidea, keys to Australian genera, Australian, Pacific, South-East Asian faunal revisions, larvae and pupae.

**Thomas O. Robbins** (Temple, USA) has recently begun collecting and studying the Chrysomelidae of Central Texas. Also preparing a database of information on chrysomelids occurring at Miller Springs Nature Area, Bell

County, Texas. This information may be used in the future to prepare published materials useful for school age children who regularly visit the Nature Area.

**Haruo Takizawa (Matsuzawa)** (Hasuda, Japan) planning revision of Malaya-Indonesian Chrysomelidae, starting with Eumolpinae. Willing to identify Eumolpinae of the area, excluding New Guinea.

**K. K. Verma** (Durg, India) working on the classification, ecology and biology of Chrysomelidae of the Indian region.

**Andrzej Warchalowski** (Wroclaw, Poland) continues to work on the taxonomy, systematics, and faunistics of the Chrysomelidae from the Palearctic and Oriental regions.

## SPECIMENS AVAILABLE OR NEEDED

**Wolfgang Baese** (Wittenberg, Germany) has Donaciinae from middle Europe to exchange for worldwide species.

**Grace Barroga** (Selangor, Malaysia) would like to borrow *Aulacophora* spp. from southeast Asia.

**William H. Clark** (Caldwell, USA) Specimens of any arthropods collected in Baja California that have been identified needed for CICESE project (see pages 1 and 3).

**Catherine N. Duckett** (San Juan, Puerto Rico) is interested in borrowing or exchanging oedionychines and alticines in all genera; needs specimens of adults or larvae preserved in 95-100% ethanol for molecular studies and all immature stages preserved in alcohol. This material will be used in a study of mimicry and phylogeny of the Oedionychina.

**Yuri Mikhailov** (Novouralsk, Russia) needs *Cryptocephalus* and *Chrysolina* from the Mediterranean region, Iran, China and Japan, and can offer Chrysomelidae (excl. Alticinae) from Russia and former USSR, including endemics from Altai, Tuva, etc.

**Chris Reid** (Canberra, Australia) *Ovamela* specimens needed. Please contact for details.

## LITERATURE AVAILABLE OR NEEDED

**Wolfgang Baese** (Wittenberg, Germany) is looking for literature on the donaciines and can offer entomological literature in exchange.

**William H. Clark** (Caldwell, USA) needs any entomological journals (write first to see material is duplicate) and reprints or monographs that deal with Baja California or taxa found there. Books of a general entomological nature would also be useful (see CICESE project, pages 1 and 3).

**Dang Thi Dap** (Hanoi, Vietnam) needs all chrysomelid literature, especially if pertaining to Asia.

**Michael Langer** (Lichtenwalde, Germany) would like information on availability of *Biologia Centralia Americana*, vol. 6(1), 1880-1892, *Phytophaga* by M. Jaboby.

**Steve Lingafelter** (Washington, USA) has some reprints of R. E. White, D. Blake and S. Lingafelter available. Please write with your specific requests.

**Yuri Mikhailov** (Novouralsk, Russia) needs all publications on Cryptocephalinae of China published after Gressitt & Kimoto (1961/63). Can offer reprints from his current publications.

**Chris Reid** (Canberra, Australia) has a few reprints available of 1995 *Cladistic Analysis of Subfamilial Relationships in the Chrysomelidae*.





## Literature on the Chrysomelidae

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- Borowiec, L. and H. Takizawa.** 1991. Notes on chrysomelid beetles (Coleoptera) of India and its neighboring areas. *Jpn. J. Entomol.* 59(3):637-654, 8 figs.
- Ciampolini, M., R. Regalin, D. Lughini and G. Chimienti.** 1998. Osservazioni su *Aulacophora foveicollis*, specie fortemente dannosa al melone. *Informatore Agrario* 54(16):99-101, photos.
- Furth, D. G.** 1998. New World *Blepharida* Chevrolat 1836 (Coleoptera: Chrysomelidae: Alticinae). *Memoir Entomol. Soc. Wash.* 21:1-109, 161 figs. (Price \$12US - To order contact: Custodian, Entomological Society of Washington, c/o Department of Entomology, Smithsonian Institution, Washington, D. C. 20560-0165 USA)
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