THE CERATOPOGONIDAE INFORMATION EXCHANGE

The CIE, issued twice a year (no subscription fee), was begun in 1967-68 as a newsletter to facilitate communication among workers interested in the Ceratopogonidae. The format is extremely flexible. Contributions may be of any length and deal with any subject having some bearing on the study of ceratopogonids. For example, contributors may report their current interests or plans, observations or techniques of probable value to the readership, requests for addresses, study material or reprints, or any other matter of concern. The newsletter serves also as a bulletin for planning and communicating information on meetings, symposia, workshops and so forth. Finally, there is in every issue a compilation of recent literature in the field. Any person(s) wishing to contribute to the newsletter or to receive future issues by email should contact:

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CIE No. 104 –December 2019 -The Ceratopogonidae Information Exchange Newsletter

Colleagues,

I hope that you will find something useful and interesting in this December, 2019 issue of the CIE Newsletter. The Recent Literature section contains 208 original research papers, reviews, reports and abstracts representing diverse research areas. Studies also were conducted from the high altitudes of the fabled Shangri-La to the tropical islands of Reunion and Curacao. I have included Click here to view figures or images from three of these papers on the last pages of this issue.

If anyone is not listed in the Directory of Workers, please send your contact information (or an update) to me. Please also send copies of your published papers, research summaries, requests for information, etc. for the May, 2020 issue by Friday, May 8th.

Finally, I send best wishes for a complete recovery to our research colleague, Gustavo Spinelli, who was injured in a traffic accident in October. Thanks to his wife, Monica, for providing information about Gustavo’s condition.

With Best Wishes for a Merry Christmas and a Happy New Year,
Steve Murphree, Nashville, Tennessee, U.S.A.

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New CIE Subscribers, Address Updates

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<td><strong>Richard Lane, Ph.D., OBE</strong></td>
<td><strong>Prof. Dilchad Kadamov</strong></td>
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Announcement

The 64th Annual Livestock Insect Workers Conference will be held June 14-17, 2020 in Dallas Texas. For updates [Click Here](mailto:).

Contributions/Requests from Scientists:

From: William L. Grogan, Jr., Florida State Collection of Arthropods, Gainesville, Florida, U.S.A.

Colleagues,

Recently, I learned about the John Malloch Society: [http://www.mallochsociety.org.uk/](http://www.mallochsociety.org.uk/) from a young British worker here (Sam Bolton, who worked on chironomids and has a Ph.D. on mites - his specialty now) John Russell Malloch (1875-1963) apparently immigrated to the USA sometime during the early 20th century [See page 8 of *John Russell Malloch (1875-1963) his early life and contribution to entomology in Scotland* – Ed]. He worked at the Illinois Natural History Survey early on and published several important monographs 1914-1917 on flies, the largest in 1915 in the Bulletin of the Illinois State Laboratory of Natural History –

Since I had never heard about this Society, I thought it would be of interest to our readers. It is likely that John Boorman knows about it and may have included a note in an early issue of the CIE Newsletter.

Cheers, Bill

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An interesting correspondence took place which began with a July 5th email from Walter Knausenberger, who read an article on BBC News entitled, “Buzz off! Midge song heralds start of Icelandic summer”. The author states that midges have historically been in only one region of the country, the north where a lake is named after them - Lake Myvatn, or Midge Lake. In fact, he indicates that they are “as Icelandic as the puffins”. However, if you follow this link, though an image of a Culicoides species is prominent, it is clear that the midges, though quite numerous, are chironomids. Subsequently I found a July, 2015 report of biting midges in Kjós on both sides of Hvalfjörður fjord in West Iceland (north of Reykjavik) that heralded them as a new species introduction.

Art Borkent located a tweet in the BBC article that included the photograph below, determined that it was a species of Culicoides rather than a black fly, and remarked, “What an interesting world we live in, with still so much we don’t know - even a pest in Iceland which remains unnamed. Someone needs to get a few females into a vial and get an identification on these. Does anyone know someone in Iceland who can capture some specimens?” Alison Blackwell replied that she would try to get samples and recently replied to my follow-up that samples had not been acquired but that Simon Carpenter might know the species. After my question to Simon, he replied that “Thomas Balenghien recorded Culicoides riouxi as part of the Vectornet work there that he led” and provided this link. However, after a look at the Fauna of the
European Union website for *C. riouxi*, it would appear that *C. riouxi* has become the junior synonym of *Culicoides reconditus*, yet this is not reflected in the latest (2016) version of the World Catalog of Ceratopogonidae (see snapshot below). So, some questions remain on at least a couple of levels. Does anyone want to look into the synonymy or perhaps visit Iceland next early July? - Ed.
From: Richard Lane, Kilmington, Devon, UNITED KINGDOM

Colleagues,

Below are some pictures from early ceratopogonid meetings. I have included a listing of who is in them as far as I can remember. I wonder if anyone else can identify the few people I can’t? If you have any queries, then please do not hesitate to contact me; if I don’t know them perhaps John Boorman will!

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1st International Ceratopogonid meeting, Strasbourg, France. 1974 - 1 Amelia Pucat (Canada); 2 Jason Glick (US/Kenya); 3 ?; 4 John Boorman; 5 Michel Cornet; 6 Jean-Pierre Rieb; 7 Bill Grogan; 8 Ryszard Szadziewski; 9 ?; Jean Clastrier; 11 ?; 12 Peter Havelka; 13 E Chaker; 14 ?; 15 ?; 16 Claudine Rebholtz; 17 ?; 18 ?; 19 Jean Callot.
1st International Ceratopogonid meeting, Strasbourg, France. 1974 - Collecting larvae in a churchyard! Circling Left to right: on wall ?; Peter Havelka, Bill Grogan (striped shirt), Ryszard Szadziewski (kneeling), Amelia Pucat.

1st International Ceratopogonid meeting, Strasbourg, France. 1974 - American ceratopogonid worker with his wife and Michel Kremer (right).
Ceratopogonid meeting Blacksburg, Virginia 1976 Photos by John Boorman?
Ceratopogonid meeting Blacksburg, Virginia 1976 -
From left to right: Michel Kremer, Walter Knausenburger, Jean Clastrier, Craig Turner.

Ceratopogonid meeting Blacksburg, Virginia 1976 -
From left to right: Frank Howarth, back ?, Anthony Downes, female ?, Ralph Barr, Bob Jones (centre), Christian Racourt, Jean Clastrier (side) Michel Kremer, Murray, John Boorman, ? far right.
Ceratopogonid meeting Blacksburg, Virginia 1976 - Henry Koch (left) and Richard Lane [Left]; Botha de Mellion (left) and Walter Knausenberger [Right].
Ceratopogonid meeting Blacksburg, Virginia 1976 - Willis Wirth (left), John Linley and Craig Turner.

Ceratopogonid meeting Blacksburg, Virginia 1976 - Willis Wirth (left) and Anthony Downes.

Ceratopogonid Study Group, August 1978, Meeting at the IV International Congress of Parasitology, Warsaw - Outside Polish Academy of Sciences. From left to right: John Boorman, Yoshito Wada, Peter Havelka, John Linley, Richard Lane, Claudine Rebholtz, Jean-Claude Delecolle, Jean-Pierre Rieb, Michel Kremer.
Florida October 1979 - Photos by John Boorman; Franklin S. Blanton, Gainesville Florid,a October 1979 [Left]; Ellis Greiner (left) and John Linley (right) [Right].

Recent Literature:

Taxonomy and Morphology


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Ecology and Methodology


**Bluetongue Virus and Other Pathogens**


Go to the paper with the figure above

Fig. 2. Culicoides spp. collection sites in Shangri-La, Yunnan, China. a. Relative abundance of Culicoides spp. collected from these sites in Shangri-La. b. Photographs of wings of the dominant species collected in Shangri-La, Yunnan, China.

Go to the paper with the image above

Fig. 5. Palpomyia binnata (Stegger, 1839), female: habitus, lateral view.
Fig. 2 Diversity and total abundance at the study sites. Pie charts show the relative frequency of each species on site. Observed abundance resulting from 55 trapping sessions per site except for PL04 (49) and PL11 (33). Bar graphs: site number on title, relative frequency on y-axes, number of individuals on bar labels. Topographical map from French National Geographic Institute (BD Topo® IGN; http://professionnels.ign.fr/scan-ign). 

Go to the paper with the figure above

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