



PROGRAM & ABSTRACTS

18th International Symposium on Trichoptera

Universidad de Las Américas
Quito, Ecuador
1-5 July 2024

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	Monday July 1st	Tuesday July 2nd	Wednesday July 3rd	Thursday July 4th	Friday July 5th
8:00-9:00	Registration	Registration	Registration	Registration	Excursion
Moderator		Ralph Holzenthal	Steffen Pauls	Paul Frandsen	
9:00-9:20	Registration	Monika Springer	Simon Vitecek	Deb Finn	
9:20-9:40	opening sessions	Monika Springer	Simon Vitecek	Deb Finn	
9:40-10:00	opening sessions	Monika Springer	Simon Vitecek	Deb Finn	
10:00-10:30	Break	Break	Break	Break	
Moderator	Blanca Ríos-Touma	Andrés Morabowen	Isabella Errigo	Tatiana Latorre	
10:30-10:50	Andrea Encalada	Ramírez	Gerwin (Pauls)	Orfinger	
10:50-11:10	Andrea Encalada	Dias (Vilarino)	Gislason	Chan (remote)	
11:10-11:30	Andrea Encalada	Quiteiro	Houghton	Kümmerlen (Pauls)	
11:30-11:50	Holzenthal	Frandsen 1	Latorre-Beltrán	Robertson	
	Group Photography				
12:00-12:30	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
12:30-12:50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
12:50-13:10	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
13:10-13:30	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
13:30-13:50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
13:50-14:00	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
Moderator	Ernesto Rázuri-González	David Tempelman	Fabio Quinteiro	Steffen Pauls	
14:00-14:30	Errigo	Ríos-Touma	Rázuri	Hussain	
14:30-14:50	Jijon	Mendez	Morabowen	Closing Ceremony	
14:50-15:10	Correa-Bedoya	Rasmussen	Frandsen 2	Closing Ceremony	
15:10-15:40	Break	Break	Break	Break	
Moderator	Mauricio Ramírez				
15:40-16:10	Laudee	Poster Session	Poster Session		
16:10-16:30	Ivanov	Poster Session	Poster Session		
16:30-16:50	Solano-Ulate	Poster Session	Poster Session		
16:50-17:10	Tempelman	Poster Session	Poster Session		
17:00-17:20		Poster Session	Poster Session		
17:20-17:40					
17:40-18:00	Welcome Reception				
18:00-19:00					
19:00-20:00			Symposium Dinner		
20:00 onwards					

SCHEDULE
18th International Symposium on Trichoptera

Monday, July 1st

Opening Session

- 8:00-9:20 Registration
9:20-10:00 Welcome addresses: Dr. Blanca Ríos-Touma, Docente Investigador and Convenor, Universidad de Las Américas, Dr. Gonzalo Mendieta, Rector, Universidad de Las Américas; announcements and general information.

10:00-10:30 Break

Plenary Address

Moderator, Blanca Ríos Touma

- 10:30-11:30 Dr. Andrea Encalada, Universidad San Francisco de Quito, Ecuador. *Conserving Amazon's Freshwater Health, Biodiversity and Connectivity*

Presentations

- 11:30-11:50 Ralph Holzenthal, *The Trichoptera of Ecuador*

- 12:00-14:00 Lunch

Moderator, Ernesto Rázuri-Gonzales

- 14:00-14:30 Isabella Errigo, *eDNA in the Neotropics: Testing its efficacy as a biomonitoring tool*
14:30-14:50 Gabriella Jijón, *Morphology outperforms DNA barcoding in identifying Trichoptera in Ecuadorian streams*
14:50-15:10 Alejandra Correa-Bedoya, *Temporal and spatial comparative analysis of taxonomic richness and functional diversity of Trichoptera in urban and rural waters of middle and lower Cauca Basin, Colombia*
15:10-15:40 Break

Moderator, Mauricio Ramírez

- 15:40-16:10 Pongsak Laudee, *Species diversity of caddisflies (Insecta: Trichoptera) from lowland forest springs, Surat Thani Province, southern Thailand*
16:10-16:30 Vladimir Ivanov, *First data on Trichoptera of the Putorana Plateau (Northern Siberia)*
16:30-16:50 Darha Solano-Ulate, *Waterfalls as a reservoir for caddisfly larvae: exploring a poorly known habitat*
16:50-17:10 David Templeman, *Trichoptera and Citizen Science in the Netherlands*

Welcome Reception

Universidad de Las Américas
17:40

Taxonomy and DNA barcodes of the family Philopotamidae (Trichoptera: Insecta) from India

Zahid Hussain¹, Aquib Majeed¹, Tabraq Ali¹, Sajad H. Parey¹, and Manpreet S. Pandher²

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The family Philopotamidae, commonly known as finger-net caddisflies, under the suborder Annulipalpia, is represented by 1508 species under 26 genera all over the Globe and 625 species are inhabitants in the Oriental region. In India, the family is represented by 7 genera and 155 species. These organisms are significant bioindicators of water quality and are crucial in the aquatic food web. Despite their ecological importance, the taxonomy and molecular profiling of Philopotamidae in India remain inadequately explored. This study aims to fill this gap by providing a comprehensive taxonomic revision and DNA barcode assessment of the Philopotamidae family in India. This study provides the first detailed taxonomic revision and DNA barcode analysis of the Philopotamidae family in India, contributing to the global efforts in cataloging biodiversity and understanding evolutionary relationships within Trichoptera. In the present study, we have identified seven species of Philopotamidae with notes on their DNA barcodes. The complete taxonomic overview and phylogenetic analysis of the species shall be presented during XVIIIth Intranational Symposia on Trichoptera at Ecuador.

First data on Trichoptera of the Putorana Plateau (Northern Siberia)

Vladimir Ivanov¹, Stanislav Melnitsky¹, and Andrey A. Przhiboro²

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The Putorana Plateau is a mountain massif up to 1.7 km a.s.l. situated at 67–71°N, south of the Taymyr Peninsula in northwestern part of the Central Siberian Highlands. It is formed by basalts from the Siberian Traps. The plateau is cut by deep valleys with rivers and lakes. The Putorana region has a high diversity of biotopes and comprises three landscape zones: taiga, predominantly larch forest in valleys, mostly below 600 m, mountain tundra generally between 600 and 1000 m, and arctic desert usually above 900 m. Over one thousand adult and immature caddisflies were collected by the latter author in 2019–2023 from several hundred localities in nine areas of the Putorana Plateau. More than 25 species were identified; some of them seem to be new for science. Most of the recorded species belong to the suborder Integripalpia with dominant families Apataniidae and Limnephilidae. Other families are Polycentropodidae, Glossosomatidae, Phryganeidae, and Brachycentridae. The fauna is peculiar in the absence of filter-feeding lotic species and the complete absence of the Brevitentoria families. Polycentropodidae, Hydroptilidae and Glossosomatidae are represented by a single species each. Males of the predominantly parthenogenetic species *Apatania forsslundi* were found for the first time.