To **Kevin Connally**

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The present document provides the result regarding the Permit No: 04-2009 delivered to Pierre Paquin, senior scientist at SWCA Environmental Consultants. This simple experiment aimed to determine if Leptonetidae spiders could be found outside the cave habitat.

On the 21 November 2008, Pierre Paquin, Kathleen O'Connor and Todd Bayless sifted forest litter found on the surface in the vicinity of Tooth Cave. A total of one hour of sifting (3 times 20 minutes) produced a few liters of concentrated litter, that was placed in a Berlese funnel to extract arthropods. This effort yielded a total of 8 Leptonetidae, 2 males, 2 females and 4 juveniles, that were sent to Joel Ledford for taxonomic expertise.

The specimens were used for morphological study using Scanning Electronic Microscopy (SEMs) and for DNA sequencing. The SEMs carried out on the male allowed to determine that the species occurring on the surface of Tooth Cave is *Neoleptoneta devia* (Gertsch 1974) (Fig. 1). This identification is in full concordance with the DNA results, which also identify the specimens as *N. devia*. Previously, that species was treated as a troglobite endemic to McDonald Cave.

These results are included in the doctoral work of Joel Ledford (Berkeley University, CA) and will likely be published in the following year. I will make sure that any papers that include the above data will be sent in your direction.

Below, I am listing the peer-reviewed papers published in 2009 that are relevant to Texas cave invertebrates. Papers 2-5 are relevant to your area. Feel free to ask for pdf files, if you don't already have these papers.

1) •White, K., G.R. Davidson, P. Paquin, 2009. Hydrogeologic evolution of the Edwards Aquifer Recharge (Balcones Fault Zone) as recorded in the DNA of eyeless *Cicurina* cave spiders, south-central Texas. Geology. 37(4):339-342.

2) •Chandler, D.S., J.R. Reddell, P. Paquin, 2009. New cave Pselaphinae and records from Texas, with a preliminary discussion of the relationships and distributions of the Texas troglobitic Pselaphinae (Coleoptera: Staphylinidae: Pselaphinae). Texas Memorial Museum Speleological Monographs, 7. Studies on the cave and endogean fauna of North America, V:125-140.

3) •Paquin, P., R.A. Anderson, 2009. The first troglobitic weevil (Coleoptera: Curculionidae) in North America? Description of a new eyeless species from Central Texas caves. Texas Memorial Museum Speleological Monographs, 7. Studies on the cave and endogean fauna of North America, V:115-123.

4) •Paquin, P., N. Dupérré, J.R. Reddell, 2009. A new troglophilic *Agyneta* from Colorado, the first description of the female of *Agyneta llanoensis* from Texas caves, and a classification of North American cave Linyphiidae (Araneae) as troglobites or troglophiles. Texas Memorial Museum Speleological Monographs, 7. Studies on the cave and endogean fauna of North America, V:37-55.

5) •Paquin, P., N. Dupérré, 2009. A first step towards the revision of *Cicurina*: redescription of type specimens of 60 troglobitic species of the subgenus *Cicurella* (Araneae: Dictynidae), and a first visual assessment of their distribution. Zootaxa 2002:1-67.

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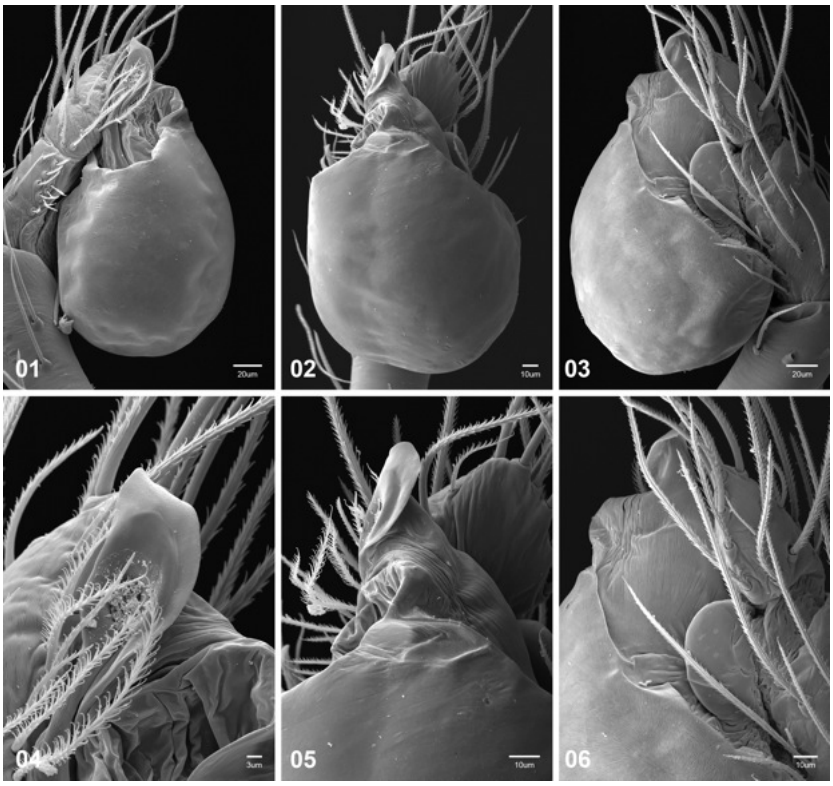

Figure 1. SEMs of the male palp of the Leptonetidae spiders collected on the surface near Tooth Cave entrance.