



Bee Line

www.cherokeebeeclub.com

SEPT/OCT 2009

14,000,000 B.C. - Fossil Shows First All-American Honeybee

North America once had its own *Apis* species instead of today's imports

By Susan Milius Web edition : Thursday, July 23rd, 2009

A 14-million-year-old fossil from Nevada shows the somewhat jumbled parts of a honeybee, recognizable by its distinctive pattern of wing veins (arrow) and other features shared by modern relatives. M. S. Engel/Proc. Cal. Acad. Sci. North America did too have a native honeybee.

The Americas have plenty of other kinds of bees, but all previously known honeybees come from Asia and Europe. Even the *Apis mellifera* honeybee that has pollinated crops and made honey across the Americas for several centuries arrived with European colonists some 400 years ago. "This rewrites the history of honeybee evolution," Engel says, turning over the long-held view of Europe and Asia as the native land of all honeybees.

The newly discovered bee, found squashed and preserved in shale, no longer exists as a living species, Engel says. To a specialist's eye, it looks closest to another extinct honeybee, *A. armbrusteri*, known from Germany.

Engel and his colleagues christen the new North American honeybee *Apis nearctica* in the current, May 7, issue of Proceedings of the California Academy of Sciences. "It is indeed a big find," says David Grimaldi of the American Museum of Natural History in New York City. "Completely unexpected," he says, considering all of the Eurasian fossils.

Grimaldi now compares the bees with horses. North America once had its own species, but the horses disappeared and Europeans eventually introduced theirs.

Engel says he wasn't expecting to rewrite the continent's history when he first heard the California Academy's Wojciech Pulawski describe some unidentified fossils from west-central Nevada. But when Engel first saw a photo of what Pulawski had led him to believe was an unpromising mess, he says, "I did a double take."

Engel spotted a definitive pattern in a wing that just buzzes honeybee. At the top of the wing, a vein thickens toward the middle, and veins below trace three characteristic shapes, including a (sort of) horse's head and a falling-sideways blob. The bee had come apart, but Engel revels in the honeybee traits he can see. "This thing had hairy eyes," he says. Barbs on the stinger show up too. This bee probably had to leave its stinger behind at the cost of a fatal rip in its body, just as today's honeybees do.

Apis nearctica's honeybee ancestors may have made their way over a land bridge from Asia to traverse this great distance, Engel postulates as he reimagines the old view of honeybees. "I got to overturn some of my own stuff," he says.

SOURCE: http://www.sciencenews.org/view/generic/id/45857/title/Fossil_shows_first_all-American_honeybee

2009 Calendar of CBC Meetings (Tentative)

- *September 13th Cherokee County Fair
- September 17th Swarm Captures
Cindy Bee
- *Sept. 25&26th GA Beekeepers Assoc. Bi-Annual Meeting
Walker County Ag Center
- October 15th Russian Queens
Carl Webb
- *November 20st Holiday Banquet
John Tackett
- *December* No Meeting - Happy Holidays!

Regular meetings held on the 3rd Thursday of each month at 7:00 PM at the Cherokee Arts Council building in Canton, except those noted with *.

UGA BEE LAB LAUNCHES NEW WEBSITE

Finally, we decided to give our tired, old website a facelift. The address has remained the same but the appearance and how to navigate the site has changed completely. If you have visited the site in the past you should check it out again. We have updated much of the content along with adding new information. If you have never been to the site before, check it out. www.ent.uga.edu/bees

Another bee friendly website that was launched recently was the Bee Health section on eXtension. The website is a direct response to concerns about quality information being posted on the internet. Users can access eXtension with the same confidence they would contacting their own state extension agent. Information published on the Bee Health website represents a comprehensive summary from scientific authorities across the US. [www.extension.org/pages/Bee Health Community Page](http://www.extension.org/pages/Bee_Health_Community_Page)

Subscribe to

Bee Culture & The American Bee Journal

at reduced rates (25% off),
as Association Members through the club.

Quote of the Month

Fall

**There's a whisper down in the field where
the year has shot her yield,
And the ricks stand grey to the sun,
Singing: "Over then, come over, for the
bee has quit the clover..."**

- **Rudyard Kipling**



If you have any bee related items for sale, they can be posted here.

BE A LOCAVORE!!!

Support your Local Farmers Markets...

Recipe Corner



Apple Gem Jelly

- 1 cup Apple Juice
- 1 ½ cups Honey
- 1 Tblsp fresh lemon juice
- 2 red apples, grated with peel on
- 3 oz liquid pectin

In 5 quart saucepan, combine apple juice, honey, lemon juice and grated apples. Bring to a full rolling boil. Boil hard for 5 minutes stirring constantly. Remove from heat. Stir in liquid pectin. Skim off foam. Ladle into hot sterilized jars. Seal. Makes three ½ pint jars.

**Cherokee BeeKeepers Club
Monthly Meeting Minutes**

No regular meeting in June.

On June 20th the Annual Summer Picnic was hosted by Candler and Debbie Ward. There was a good turn out and A good time was had by all!

.....

**Cherokee BeeKeepers Club
Monthly Meeting Minutes**

July 16th, 2009

Guest Speaker – Dr. Keith Delaplane
60 members in attendance.

Dr. Delaplane spoke of the 4 million dollar grant shared by UGA and other universities across the US to study the decline of the Honey Bee.

.....

**Cherokee BeeKeepers Club
Monthly Meeting Minutes**

August 20th, 2009

Guest Speaker – Randy Tudor
30 members in attendance.

Randy explained the specifications related to Welsh Honey Judging.

.....



***Would you be a Cherokee Bee Club Meeting
Hospitality Volunteer?***

The Club has purchased a coffee pot and would like to start having Coffee and “Honey Snacks” at our regular monthly meetings.

If you could volunteer to bring a Honey Snack, please contact Laney Cagle. This will be for the months of Sept. & Oct.

CBC Library



A Year in the Life of an Apiary	How Do Bees Make Honey
An Introduction to Beekeeping –video	How to Keep Bees and Sell Honey
Beekeeping - A Complete Owner's Manual	Increase Essentials
Beekeeping - A Practical Guide	Just Add Honey
Bees - Lectures By Rudolf Steiner	Observation Hives: How to Set Up, Manage, and Use an Observation Hive
Bees in America - How The Honey Bee Shaped a Nation	Practical Beekeeping
Bees Were Their Business	Queen Management
First Lessons in Beekeeping	Queen Rearing and Bee Breeding
Following The Bloom - Across America w/ Migratory Beekeepers	Setting Up a Package Swarm
Health and The Honey Bee	Small Scale Honey Harvesting
Hive Management: A Seasonal Guide for Beekeepers	The Candle Maker's Companion
Honey - From Hive to Honey Pot	The Class Room
Honey and Your Health	The Healthy Taste of Honey
Honey Bee Biology & Beekeeping	The Joys of Beekeeping
Honey Bee Disease and Pests 2 nd Edition	The Life and Times of the Honeybee
Honey Bee Pests, Predators, & Diseases	The Queen Must Die
Honey Bees and Beekeeping- A Year in the Life of An Apiary	75 th anniversary Tribute to Walter T. and Ida Babin Kelly

"If anyone has outstanding library items, please return them to the NEXT meeting"

Notes from the Editor

Labor Day has past. That means summer is over. Time for the Cherokee County Fair. It will be starting next weekend. Bud Champlin & Michael Blackwell are working on a Bee related Photo Gallery to be used as the club's exhibit this year. If you have any photos from Bee School, Picnics or your own hives, please email them to Michael [michaelblackwell@tds.net]. If you can assist with the set up give Bud a call **770-735-4036**.

If you have any articles you'd like to share, or if you would like to list anything for sale, please send them to me or call. Laney Cagle, lane714@tds.net, 770-893-2635

The opinions expressed in articles in the BeeLine are of the writer & not necessarily of the CBC Membership

Cancer warning over paraffin-based candles

By Oliver Duff

<http://www.independent.co.uk/life-style/health-and-families/health-news/cancer-warning-over-paraffinbased-candles-1774322.html>

Wednesday, 19 August 2009

The table is set. Rose petals are scattered. Barry White is playing.

Romantic, perhaps (some would say corny) – but that candlelit dinner may also be releasing cancerous chemicals into the air, scientists have warned.

In a blow to amorous gestures, researchers told the American Chemical Society's annual meeting in Washington that burning paraffin wax candles – the most common kind – is an unrecognized source of “indoor pollution” that allows carcinogens such as toluene and benzene to build up in unventilated rooms.

People who frequently used candles, to help them relax in the bath, for example, were most at risk. Candle emissions can also irritate the lungs and trigger asthma attacks.

Burning candles does not produce high enough temperatures to combust the heavy molecules contained in paraffin wax completely, the researchers said. This led to the formation and emission of hazardous molecules.

“An occasional paraffin candle and its emissions will not likely affect you,” said Dr Amid Hamidi, from South Carolina State University in Orangeburg, who co-led the study. “But lighting many paraffin candles every day for years or lighting them frequently in an unventilated bathroom around a tub, for example, may cause problems.” His team burned candles in a laboratory, separated the individual elements and identified their atoms by weight.

The scientists suggested switching to candles made from beeswax or soy, which produced no detectable levels of harmful chemicals but nevertheless provided the warmth, ambience and fragrance suitable for courtship

Cherokee Beekeepers Club Contacts: www.cherokeebeeclub.com

Ryan Sarks, President	beehavenapiaries@gmail.com	770-735-2882
Bob Behrman, Vice-Pres.	scbehr@comcast.net	770- 627-5124
Worth Green, Sec/Tres.	worthf@bellsouth.net	770-442-1706
Laney Cagle, Bee Line Editor	lane714@tds.net	770 -893-2635
Pat Sarks, Librarian	jmispas@alltel.net	770-479-1988
Randy Tudor, Past Pres.	rtudor@att.com	706- 692-9224
B. J. Weeks, Board Member	bnweeks@juno.com	770-735-3263
Gerald Phillips, Board Member	gphilli@hotmail.com	770- 924-6631
Bill Posey, Board Member	billsbeefarm@yahoo.com	770-386-3311
Bud Champlin, Board Member	champlin@tds.net	770-735-4036
Debbie Lomax, Board Member	candlerward@windstream.net	770-345-1949
Michael Elliott, Board Member	michael.elliott@comcast.net	770-442-9803

<u>Other Resource Contacts</u>		
Barry Smith Manager Apiary Program Georgia Dept. of Agriculture P.O. Box 114 Tifton, GA 31793 Phone: 912-386-3464 E-mail: bsmith@agr.state.ga.us	Dr. Keith S. Delaplane Professor of Entomology University of Georgia Athens, GA 30602 Phone: 706-542-1765 E-mail: ksd@arches.uga.edu	Jennifer Berry University of Georgia Apicultural Research Coordinator 1221 Hog Mountain Road Watkinsville, GA 30677 Phone: 706-769-1736 E-mail: jbee@bugs.ent.uga.edu
Paul J. Pugliese, MPPPM ANR County Extension Agent The University of Georgia Cherokee Cnty Extension Svc 100 North Street, Suite G21 Canton, GA 30114 Tel: 770-479-0419 Fax: 770-479-0565 Email: pugliese@uga.edu www.ugaextension.com/cherokee	Rick Jasperse, Coordinator Pickens County Extension Svc. Jasper, GA Phone: 770-253-8840 E-mail: rickj@uga.edu	Sue Smith, Director Etowah High School Vo-Ag Woodstock, GA Phone: 770-926-4411 Email: sue.smith@cherokee.k12.ga.us
Georgia Beekeepers Association Bob Binnie, President PO Box 15 Lakemont, GA 30552 706-782-6722 www.gabeekeeping.com	Metro Atlanta Beekeepers Association Richard Keifer, President E-mail: rokmak@comcast.net www.metroatlantabeekeepers.org	Northeast Georgia Beekeepers Association John Haaseth Clarksville, Georgia 706-865-1085
Tara Beekeepers Association Bill Lynch, President Phone: 770-707-2627 E-mail: Bill.@amsou.com	Forsyth Cnty. Beekeepers Club Andy Bailey, President 770-530-6397 baileysbees@gmail.com	Northwest Georgia Beekeepers Club Richard Wright 706-638-1354