



Newsletter of the London Gem Mineral & Fossil Society London Ontario

September 4th 2025

CLUB NEWS

Activities For September 4th

Description of Meeting

Membership:

Club fees are as follows:

Families \$30, Single \$20, Student \$15.

Those who have paid at the beginning of January until the September meeting will not have to pay until September 2026.

Most Pristine Trilobite Fossils Ever Found Shake up Scientific Understanding of the Long Extinct group. This is a photo-visual article here.

Rapid volcanic ash entombment reveals the 3D anatomy of Cambrian trilobites

Authors: Abderrazak El Albani, Arnaud Mazurier, Gregory,

D. Edgecombe, Abdelfattah Azizi, Asmaa El Bakhouch, Harry O. Berks El Hafid

Bouougri, Ibtissam Chraiki, Philip C. J. Donoghue, and John R. Paterson +5

Science, 27 Jun 2024, Vol 384, Issue 6703 pp. 1429-1435.

This is a copyrighted paper and is not open to the general public. Publication article and photos are used with permission by Dr. El Albani. R&D Leader Also phys.org/news/2024-06-pristine-Trilobite-fossils-scientific-extinct.html.

- > 500 million years old
- Found in high Atlas of Morocco (mountains)
- Trilobites were found in volcanic ash in a shallow marine setting.
- Because of being found in volcanic ash the scientist's call them "Pompeii trilobites"
- Found by a team led by geologist Professor Abderrazak El Albani at the University of Poitiers in France (originally from Morocco)

London Gem Mineral & Fossil Society

Meetings: Usually 1st Thursday of each month 7:00 – 8:30 pm (September to June but not in January)

Meeting Place: Earl Nichols Arena
799 Homeview Place London Ontario

Membership: Single \$20, Family \$30, Student \$15

President: Tom Iannelli 519-641-0098

Vice President: Tim Jokela

Secretary: Vacant

Membership: Judie Perrin 226-663-0236

Facebook Admin: Judie Perrin 226-663-0236

Treasurer: Judie Perrin 226-663-0236

Program: Albert Perrin 519-841-7599

Newsletter Editor: Albert Perrin 519-841-7599

albertperrin76@gmail.com

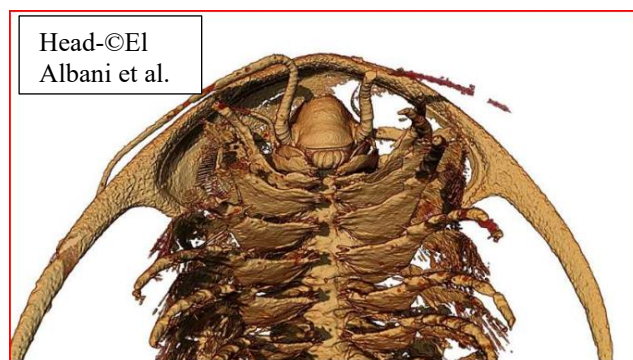
email: londongemmineralfossilsociety@gmail.com

CCFMS Website: News, Trips, Clubs etc.

www.ccfms.ca

LGMFS: www.facebook.com/londongemmineralsociety

- The fossils were remarkably preserved by being encased in hot ash in sea water.
- The 3D preservation even included soft tissue which provided a much better understanding Trilobites of which there are over 20,000 species.
- The ash molds had each segment of their bodies, legs and even hair-like structures
- CT scanning & computer modeling of virtual X-Ray slices were done & shown here
- Appendages were found at the edge the mouth
- One of the photos show a fleshy lobe covering the mouth, called a labrium (blue)
- Clustering of special leg pairs around the mouth were also found.
- ©El Albani et al. means the names of all authors (copyright)





Top view ©El Albany et al.



Right view,
© El Albany et al.



Bottom View, ©El Albany et al.



Partial left view.
©El Albany et al.



Bottom view with mouth
and legs, ©El Albany et al.