

### Our services:

- ✓ pollen extraction and analysis
- ✓ green algae, diatom and foraminifera analysis
- ✓ honey pollen analysis - forensic palynology, vegetation histories - fire histories
- ✓ GIS applications to past
- ✓ current and future vegetation and climate reconstruction
- ✓ application of geomorphology and MCM modeling to reconstruct erosion and soil formation histories
- ✓ modern landscape erosion modeling and projection of its economic impact
- ✓ modeling of changing stream flow and erosion patterns resulting from precipitation changes
- ✓ ground water recharge modeling, based upon past, present and future precipitation and geology
- ✓ paleo- and modern hydrologic input estimates
- ✓ assembly of modern pollen and plant macrofossil reference collections
- ✓ packrat midden processing and analysis
- ✓ archaeobotanical analysis- human coprolite analysis
- ✓ wood and charcoal identification
- ✓ paleoenvironmental reconstruction
- ✓ paleoclimatic reconstruction
- ✓ palyno-stratigraphic correlation
- ✓ lake level histories

## Contact Us

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## Earth- & Eco- Systems Expertise for Environmental Modeling & Restoration

(EESEEMR)





**Want answers?**  
Ask the people at  
Earth- & Eco System Expertise for Modelling & Restoration  
**"We are the Pollen People"**  
With the **"EXPERTISE"**  
to tell you what is  
real or junk!

**So many products!**

**So confusing!!!**

**What do these really contain?**



### **Pollen Analysis for Honey Certification and Prediction of Change in Types of Honey Plants in response to Climate Change**

Irish honey is a major "green" industry in Ireland, and that has grown amazingly during the last two decades. There is a chemical certification currently conducted to ensure its quality. However, there a clear need for increased pollen certification that guarantees the plant types that are contributing to the honey that is being produced not only seasonally, but throughout the season. EESEEMR can provide this service. In addition, the procedure that EESEEMR uses, can also guarantee the quality of imported honey. EESEEMR can also confirm the correct mixing of honeys for special varieties of honey. EESEEMR can provide these answers in our laboratory in Dublin, where we employ Irish technicians. Global climate change is already impacting local bee populations with new diseases. In the future this impact will also impact bee populations even more. EESEEMR's staff in our Dublin laboratory can forecast the impact of climate change on the bees of Ireland.

EESEEMR can also provide predictions of the impact of climate change upon the plant communities of Ireland. The honey industry will have to adapt to these changes through the selection of new plant honey types as old ones may become rarer as the plants disappear. On the other hand, there will clearly be an opportunity for new plants to be introduced and become part of the honey production market. We can provide these at EESEEMR can provide answers!

**A Research, Consulting & Implementation Company  
(Dublin, Ireland)**

**2019**

**Applied Ecological & Paleocological Studies**

**Honey Pollen Certification**

**Forensic Palynology**

**Allergy Palynology**

