



## PetroStrat Inc.: Tailored to Serve Your Needs in the Gulf Coast Region

### **PetroStrat Inc.**

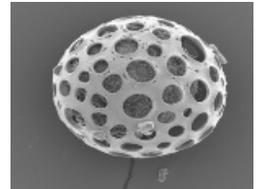
*The Gulf of Mexico and its surrounding areas is one of the most prolific hydrocarbon regions in the world. PetroStrat Inc. has dedicated staff based in Houston to accommodate and serve the specific stratigraphic needs of this area. Like our parent company in Wales, we provide fully integrated multidisciplinary services.*

### **Why use Biostratigraphy?**

- **Biostratigraphy calibrates the seismic:** Gives geological/stratigraphical meaning to seismic picks where seismic calibration may not be accurate.
- **Where seismic control is not always possible:** through some rock formations (e.g. salt diapirs).
- **Defines Sequence stratigraphy:** Allows first order correlation to the type 1 and 2 sequences.
- **Provides a detailed, high resolution stratigraphic framework:** Allows correlation by absolute age and/or correlation by depth. Aids appraisal/ development of discoveries.
- **Resolves and defines lithostratigraphic units.**
- **Interprets Paleoenvironments:** Aids geological understanding of a basin and deposition.
- **Indicates sediment provenance:** Based on the assemblages and nature of any reworked microfossils. Allows differentiation between hemipelagic muds and a muddy debris flows.
- **Explains the unexpected:** Faults, stratigraphic breaks, or facies change.

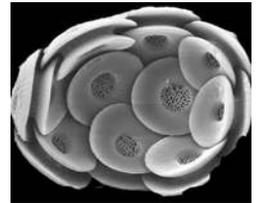
### **Micropaleontology:**

Foraminifera, diatoms, radiolaria and ostracods



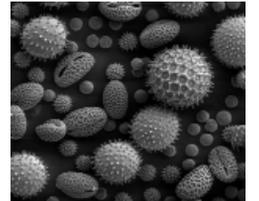
### **Nannopaleontology:**

Calcareous nannofossils, includes coccoliths.



### **Palynology:**

Terrestrial plant matter, spores and pollen, dinoflagellates, Acritarchs and Chitinozoa



### **Wellsite Biostratigraphy**

*PetroStrat has nearly 20 years of experience in providing real-time biostratigraphy onshore and offshore the Gulf of Mexico. Our in-house staff specializing in nannopaleontology, micropaleontology and palynology enable us to always apply the optimal discipline(s) for any geological setting: Miocene and younger sections are oftentimes best interpreted using calcareous fossils (nannoplankton and foraminifera). In older sections, palynology has proven to be the best tool to provide high resolution biostratigraphy.*

*PetroStrat has pioneered the application of wellsite palynology in the Wilcox, and we are particularly proud of our state-of-the-art, green non-acid processing techniques.*



### Hot Shots

*In wellsite operations time is money! Our laboratory in The Woodlands enables us to provide hot shot analysis in all three disciplines. Our proximity to the Gulf of Mexico assures that we can provide this service with a very fast turnaround, helping you to make timely and cost-effective decisions.*

### Sample Preparation and Analysis

*At our full-service laboratory, we are able to prepare samples for nannopaleontology, micropaleontology and palynology. Palynological slides can be prepared using standard techniques including HCL and HF treatment, or proprietary state-of-the-art, non-acid applications. In-house staff are available to analyze slides for all three disciplines covering the entire Mesozoic and Cenozoic stratigraphic column. Even if you have a project in older strata, rest assured that one of the 40+ specialists at our headoffice in Wales can accommodate your request.*

### In-house Consultation

*Whether you are dealing with vintage biostratigraphic data sets, BSSE derived paleo picks, or paleo-based regional correlations, sometimes it just doesn't seem to fit with your seismic and geologic interpretations.*

*Our experienced staff can help you with re-interpreting and QCing old data, checking for alternative interpretation options, preparing correlations and paleoenvironmental interpretations. We believe, that integration is key and necessary to get a realistic and satisfying solution to your problem.*

### Regional Studies

*PetroStrat has conducted numerous regional studies globally, and more recently three consortium studies in the Wilcox. Studies are focusing on onshore US, offshore US and the Mexican Perdido area. We always deliver an integrated product, that is easily understood and applied by non-biostratigraphers.*

## Our Houston Staff:



### Palynology

Mitch Gregory  
Katrin Ruckwied

### Micropaleontology

Sam Morrison  
Mohsen Kariminia



### Nannopaleontology

Bryan Ladner

