

LST Lab Applications VI – Digging Into Asphaltenes (20 points total) Essay Assignment

Homework Questions (10 points)

You must submit your answers to the homework questions for this article. We discussed this article and these questions in class on Friday, October 2.

Essay Question (10 points)

You must write an essay about the advantages and disadvantages of one of the packaging materials discussed in this article.

Your essay must contain four paragraphs and each paragraph must have at least four sentences. Your essay must also be written in the **third** person. In other words, you cannot use the words “I”, “me”, “my”, “us”, “we”, “our”, “you”, and “your” in your paper. **Even in the opinion portion of this paper, you cannot use these words.**

The structure of your essay should be as follows:

Paragraph 1: Introductory paragraph that discusses the general issue of asphaltenes. Why are companies trying to understand the chemical properties of asphaltenes? Where are these compounds being found? What are people trying to do with these compounds? At the end of this paragraph, you state that the rest of the paper will discuss the advantages and disadvantages of extracting and using asphaltenes.

Paragraph 2: This paragraph should discuss the advantages of the extraction and use of asphaltenes.

Paragraph 3: This paragraph should discuss the disadvantages of the extraction and use of asphaltenes.

Paragraph 4: This paragraph should contain your opinion about whether or not asphaltenes should be extracted and used for fuel. Do the advantages outweigh the risks? Be sure to adequately explain and support your opinion. Remember that you must write in the **third-person!!**

The grading for this essay is as follows:

- One point will be given for each paragraph that you write according to the list shown above up to a maximum of 4 points.
- Two points will be given if the essay is written in the third person.
- A maximum of two points will be given for correctness of English and grammar.
- A maximum of two points will be given for correctness of scientific content.

You must submit your essay and the answers to the homework questions on Friday, October 9. Late work will be penalized 10% per school day as noted in the syllabus.