

SPECIAL PROJECT PROPOSAL FORM 2019

It is only necessary to submit one copy per team. (This form is on the CH 461 web site in MS Word).

- A. Some text including one or two paragraphs using complete sentences and proper English that provides an overview of your team's project and lists the objectives and/or hypothesis your team is testing. ***This is very important and your proposal will not be considered without this section.***

- B. One complete copy of each reference article that you found in "the literature" and that your Team plans to use as a basis for your project. You can email a pdf to christine.pastorek@oregonstate.edu instead of printing these.

- C. The completed **Table of Information** below with the additional material requested.

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| 1. Names of All Team Members | |
| 2a) Type of real sample(s) to be analyzed (e.g., decaf coffee beans, horse teeth, acai berry supplement, etc.) | |
| 2b) Where and how samples will be acquired? (e.g., Corvallis Water Department, two separate samples in 500-mL capped brown amber bottles with no head space; Fred Meyers, commercial bottle, Nature Made; top of McDonald Forest, two separate soil samples in 50 mL beakers). | |

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| <p>2c) Number and kind of unique samples (e.g., source of sample from three different locations, or two bottles, or two different brands).</p> | |
| <p>2d) Number of sub-samples or aliquots for each unique sample to be analyzed (e.g., each run in duplicate or triplicate).</p> | |
| <p>3. Chemical species to be determined - i.e., what is/are the analyte (s) you plan to determine?</p> | |
| <p>4. Method of analysis and specific instruments (model number) if known (e.g., Agilent HPLC, model 1260, GBAD 318, etc.)</p> | |
| <p>5. Type of sample digestion, overview of any pre-concentration protocol, or other steps in the sample preparation. Provide separate sheet or reference with procedure for sample preparation if needed.</p> | |
| <p>6. Expected concentration for each analyte of interest in the real samples based on what is published in the literature or on the sample bottle, etc. Expected range of analyte conc. in samples (e.g., 100-200 µg/mL vitamin E & D2).</p> | |

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| <p>7a) Range of concentration of standards you want to use (e.g., 50 - 1000 µg/mL vitamin E & D2). Make sure that the range brackets the expected range of analyte concentrations in the real sub-samples?</p> | |
| <p>7b) Number of standards you plan to use for your calibration curve?</p> | |
| <p>7c.) How you will prepare standards? Provide step by step directions starting with the stock solution and then the dilution schemes needed to make the standards.</p> | |
| <p>8. What method will be used to check efficiency of you method? (e.g., spike sample with standard and measure; std addition; run blank or standard through procedure to measure interference or recovery) .</p> | |

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| <p>9. List of names for specific chemicals needed and amounts (list all chemicals). Indicate if available or not available in department (check list provided by Dr. Pastorek). If not available in department, give a vendor name, catalog number, amount you will need, when you need it, and price.</p> | |
| <p>10. List of special small equipment or utensils, etc. needed (e.g., shaker bath, vortexer, burets, blenders, knives, sonicating bath, etc.)</p> | |
| <p>11. List of special safety concerns if any and waste disposal scheme for disposing of samples, standards, etc. after the project is completed.</p> | |