**Real-World Cases in Green Chemistry Exercise\***

Please peruse the following exercise. To complete the exercise select one of the award winning Presidential Green Chemistry Challenge proposals that has been provided to you.

**1) Title** of Presidential Green Chemistry Challenge Award:

**2)** **Year**:

**3)** **Company, Institution, or Academic**:

**4)** **Focus Areas** (circle one that is the most applicable; the following links may be helpful: <https://www.epa.gov/greenchemistry/information-about-presidential-green-chemistry-challenge> and https://www.epa.gov/greenchemistry/presidential-green-chemistry-challenge-winners ) :

a. Greener synthetic pathways

b. Greener reaction conditions

c. The design of greener chemicals

Each year one award is selected for a small business. Is this a small business award? \_\_\_\_\_\_

Each year one award is selected for an academic award. Is this an academic award?\_\_\_\_\_\_

**5)** **Summarize the “traditional” chemistry** (the prior art in the field).

**6) Summarize the green chemistry** with particular emphasis on how it improves the environmental footprint and or human health benefits of the chemistry involved. If possible, also indicate how it improves upon the societal and economic bottom lines. You may want to consider the 12 Principles of Green Chemistry (<https://www.beyondbenign.org/about-green-chemistry/>) as a guide when assessing the environmental footprint and the bottom lines.

**7)** Create a written report or powerpoint presentation on the technology, including the above information.

\* For an overview of the Presidential Green Chemistry Challenge Awards see <https://www.epa.gov/greenchemistry/information-about-presidential-green-chemistry-challenge>