

Murray State University
ORCA Travel Grants Proposal Document

Fill in the information requested, save the file, and upload to digitalcommons.murraystate.edu/orcagrants

A.) Project title & information

List the title: Improving the Recyclability of PET-PE Mixed Waste Streams

List the format (e.g. poster, paper, roundtable, performance): Poster presentation

Abstract/Description:

Poly(ethylene terephthalate) (PET) and poly(ethylene) (PE) are among the most common plastics produced today. Together, they are often used as multilayer film for food wrappers and other gas/water vapor barrier products and constituent one of the largest offenders insofar as oceanic waste is concerned. Unfortunately, multicomponent systems such as these are challenging to recycle due to the difficulty in separating the layer components and immiscibility between the components during the recycling process. Towards this end, we have prepared several compatibilizers that could be utilized in improving the recyclability of mixed plastic waste streams such as PET-PE. Synthetic details and characterization of the compatibilizers will be discussed as well as data supporting the notion that these materials can help to improve the miscibility of PET and PE during reprocessing.

B.) Name(s) of students traveling: Abigail F. Bratton

C.) Conference information

Conference name (full, no abbreviations): American Chemical Society National Meeting and Expo

Dates: March 30-April 4, 2019

Location: Orlando, FL

Sponsoring body: American Chemical Society

Conference website: <https://www.acs.org/content/acs/en/meetings/national-meeting.html>

D.) Total amount request from ORCA (max. \$200): \$200

E.) Estimated costs of expenditure to be paid with this award:

The bulk of the cost of this trip will be covered by the Department of Chemistry and a National Science Foundation Grant awarded to Dr. Miller. ORCA money will be used towards covering registration and meals during the estimated 5 days of the conference. Shown below are the estimated costs for the entire trip.

For example:

Airfare:

Mileage:

Lodging: \$200/night (\$800 estimated)
Meals (\$7 breakfast, \$8 lunch, and \$15 dinner): \$150 (5 days)
Conference/Gathering registration: \$125
Other:

F.) Faculty mentor information

Name: Dr. Kevin M. Miller
Department: Chemistry
Email: kmiller38@murraystate.edu

G.) Description of faculty mentor's involvement in the project:

Dr. Miller is the primary investigator of the project and oversees the day-to-day operations. He has helped with guiding the synthesis and analyses associated with the project. He also coordinates the shipment of samples I make here at MSU to the University of Minnesota where they are processed and tested. The poster presented at the ACS meeting is a summary of the work I did over the last two semesters (plus the summer of 2018). He will support the remainder of my travel to the conference through a National Science Foundation grant.

H.) Interdepartmental reimbursement info

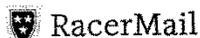
MSU department name: Chemistry
MSU departmental contact: Diane Thiede

I.) Acceptance notice

Paste a screenshot of your conference acceptance email or online listing: see attached document

J.) Local Presentation - X your preferences for presenting your work to a Murray State audience:

- | | |
|---|--|
| <input type="checkbox"/> Fall Scholars Week (November 12-16, 2018) | <input checked="" type="checkbox"/> Spring Scholars Week (April 15-19, 2019) |
| <input type="checkbox"/> Publication in <i>Steeplechase</i> | <input type="checkbox"/> Recorded interview in <i>Steeplechase</i> |
| <input type="checkbox"/> Posters-at-the-Capitol (February 21, 2019) | <input type="checkbox"/> Something else. Describe: |



email | calendar | drive

Kevin Miller <kmill38@murraystate.edu>

Fwd: Abstract Acceptance Notice - Spring 2019 ACS National Meeting in Orlando, FL

Abigail Bratton <abratt@murraystate.edu>
To: Kevin Miller <kmill38@murraystate.edu>

Thu, Jan 3, 2019 at 10:22 AM

Respectfully,
Abby Bratton

----- Forwarded message -----

From: **Spring 2019 ACS National Meeting in Orlando, FL** <onbehalf@abstractcentral.com>
Date: Wed, Dec 26, 2018 at 9:24 AM
Subject: Abstract Acceptance Notice - Spring 2019 ACS National Meeting in Orlando, FL
To: <abratt@murraystate.edu>

Dear Ms. Abigail Bratton,

Your presentation has been accepted for the technical program of the Spring 2019 ACS National Meeting in Orlando, FL, March 31 – April 4, 2019.

PAPER ID: 3088804
PAPER TITLE: "Improving the recyclability of PET-PE mixed waste streams"

DIVISION: [POLY] Division of Polymer Chemistry
SESSION TYPE: Poster

Symposia, presentation dates, times, and locations will be included in upcoming scheduling notices.

Registration Required

In order to present, you must be registered for the Orlando, FL meeting. Early registration discounts are available through January 21, 2019. Registration rates and policies are available at www.acs.org/OrlandoInfo. Failure to register for the meeting will result in withdrawal of your abstract from the meeting program, technical programming archive, and CAS database.

Housing Available

ACS has secured discounted hotel room rates in each of the conference hotels. Free internet and complimentary shuttle buses are available. Please visit www.acs.org/OrlandoInfo to book housing before March 5, 2019.

Cancellation or Withdrawal

If you are unable to give your presentation, please send a withdrawal request to maps@acs.org. In your request, please indicate the abstract control ID, abstract title, and the meeting name, to ensure that your request is processed in a timely manner. If you have questions about your presentation, please contact your program chair (see callforpapers.acs.org/orlando2019 for contact information).

If you have already registered or booked your hotel room, please visit www.acs.org/OrlandoInfo to read the cancellation policy for registration and housing.

International Attendees and Visa Procurement

If you require a visa to travel to the U.S., the U.S. Department of State recommends starting the process at least three months before the departure date. Further information on the visa process can be found by visiting the U.S. Department of State or the ACS National Meeting & Exposition international registrant page.

Please note that ACS is neither responsible nor liable if a visa is denied or delayed. If your visa decision is still pending on or after January 21, 2019, please consider sending an email to intlacts@acs.org explaining your status and visiting the U.S. National Academies International Visitor Office to complete their visa questionnaire at http://sites.nationalacademies.org/PGA/biso/visas/PGA_048197.

MAPS Support
maps@acs.org