



In Conjunction with the American Chemical Society
Student Affiliates at the University of Pittsburgh



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Welcome Back!

Welcome back and happy new year! I hope everyone got some well-deserved rest and is ready to tackle another semester. I know this break seemed to have flown by, but I have a feeling that this semester will, too. Now let's take a deep breath and prepare for our ritual of having too much coffee and not getting enough sleep.

The start of 2018 holds many meanings, each different for everyone. For some of us, this is the beginning of the end because graduation will creep up in just five short months. For others, this is the end of their freshman year and the college experience has only just started to settle in. Wherever people are in their lives, I think we should take a moment to look back at this year and see how much we have all grown. With each new year comes new resolutions, so what better way to plan them than to see how far we've come?

The past year was a turbulent one, with problems rising from high political tensions to natural disasters. However, this year was also filled with hope and courage. People from all backgrounds came together to tackle these problems. People came together for Women's March, for Pride, to providing relief for hurricane victims, and for many more. The fight for appropriate representation in media was also a major topic this year. Movies like Wonder Woman helped show young girls that they can be strong and amazing, while the casting of Star Wars gave inspiration to many people of color. People are coming together to make the world a more inclusive place, and we have seen just how far that strength and compassion has taken us.

How has the last year changed you? How do you hope to improve? Better yet, what do you hope this year will bring? Instead of waiting for things to happen, let's be like all those who inspired us and act first. Let 2018 be the year where we take control of our lives and make it be the way we want it to be. Let us shower ourselves in self-care and improvement to become the best versions of ourselves.

Without further ado, I wish everyone the best of luck this semester! I hope all the good things happen to everyone so we can all live our best lives!

Grace Rong, Newsletter Co-editor

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CHEM
MAJOR
NEWS



Green Chemistry

by: Andrew Warburton
Green Chemistry Contributor



Hello friends! I hope everyone had a wonderful winter break! I was so happy to kick up my feet and relax for three whole weeks. Now, we must go back to the grindstone, so let me be the first to welcome you back. To my fellow seniors reading this article, congrats! You're almost done with your undergraduate education and will go off to pursue great things, but before you get too excited about your new job, grad school, or whatnot, remember that you must finish this semester! You're almost done running the marathon and just have to push through the last quarter mile!

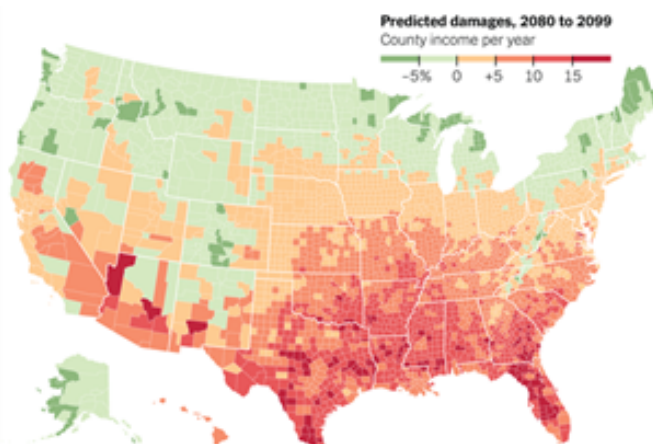
Juniors are in a completely different boat. As I'm sure you're well-aware of, you're over half-way finished with college and should consider what you would like to do after you're done! If you're one of the lucky ones who already knows what he/she wants to do, then you're most likely preparing for standardized test and/or interviews. Take some time to talk to some seniors who were in a similar position to you. Make use of the career centers and advisers we have here on Pitt so that you can get the most out of your undergraduate career!

Sophomores and freshmen. Those words seem so distant. You should still do your best in your classes and see if you want to declare a major. Meet with an advisor and even if you're leaning towards a major, don't hesitate to schedule a meeting with one of them to learn more about the major and the opportunities it provides you in the future (I know George is always looking for more chemistry majors)! Plan some classes and get involved in some clubs while you're still young!

Now it's time to get to the dirty business: Green Chemistry. In this article, I want to address the major environmental issues that we saw during 2017. It really was a crazy year with three powerful hurricanes tearing through the Caribbean, wildfires, and lost ice caps.

Each year, Greenland lose 270 billion tons of ice as the planet warms. Glacier National Park has lost over a third of its area between 1966 and 2015. It shows no sign of slowing. Alaska's permafrost is thawing and might all be gone by 2050 without action.

Hopefully you have also read some of these shocking statistics not just on ice caps, but on climate change in general. Regardless of your views on the validity of climate change, it is evident that our world is changing. Below shows a map of predicted damages to the United States, showing how Southern states will be impacted the most. There's a great New York Times article that brilliantly summaries everything here. Take a moment and digest it!



<https://www.nytimes.com/interactive/2017/12/06/climate/year-end-review.html>



*The University of Pittsburgh
Department of Chemistry*

is proud to announce

*The McKeever Summer
Undergraduate
Research Fellowship*

- **T**he Undergraduate Research Fellowship will be awarded this Summer 2018.
- **T**his Fellowship will provide a Summer stipend of \$3,500.00 to the recipient for work carried out in the research lab of our faculty member.
- **P**lease submit a letter of recommendation from a Faculty Mentor which includes your qualifications and details of the planned research project (1-2 pages) and a **one** page personal statement of your future goals to **Dr. George C. Bandik in Room 107 Chevron Science Center by February 19, 2018**. All nominations will be reviewed by our Undergraduate Curriculum Committee and the recipient will be recognized at our Undergraduate Spring Term Awards Ceremony within the University of Pittsburgh, Department of Chemistry.

Deadline to receive all materials for this Fellowship is February 19, 2018.

Linear Ion Trap

We shoot the gap and the gate slams behind, now we're hurtling fast, about to collide. But just
As it seems that it might be too late, we start to slow down at a considerable rate. First we
sail, then we glide, then we coast, then we inch, close enough to the wall that we
can't help but to flinch. We screech to a halt, for a millisecond, idling now
as we change direction. Now we gain speed, heading towards where we
started, first we inch, then we coast, then we glide, now we're
darting. But this time I see that the distance we go, is shorter
than that which we have gone before. We're lobbed
back and forth, like we're hit by a pitter. Each
time our range shrinks until we just
flutter. Then we're

Still

I think

It's returning,

That same ebb and flow,

But now in the other direction we'll go.

It will start with a twitch that turns into a tremor,

Momentum swells as we're slung right through the center.

It seems that each time we're flung, recklessly, from side to side

The borders of our trek are amplified. Our margins of travel are steadily
contracting, from a gulf to a gurge to a crack to a crevasse. With each oscillation

We accelerate; each pass brings us closer to an imminent fate. This is our ultimate lap,

I just knew it; we'll hug one last turn, round the bend, and then, losing ourselves, simply split!

2018 January ACS-SA Schedule

12 Officer's Meeting

19 Welcome Back
First Meeting of the Term

27 Mr. Kevin Romagnoli
Valspar Corporation



Hoagies and Sample Exams yet Again!

Our most visible activities are the ACS hoagie and Chemistry Exam sales. Just about everyone having a Chemistry Lab class in Chevron has at one time or another eaten an ACS hoagie from Uncle Sam's while studying. The funds raised by these sales help to defray the weekly meeting expenses for refreshments and other incidentals as well as the cost of the food and supplies at our social functions.



Hoagies are sold on Tuesdays throughout the semester.

I Need a Job!

It's that time of year! Time to begin the search for a summer position. There are several opportunities for summer opportunities available to Chemistry majors.

The first place to look is the Chem Major News area of the first floor hallway. Here you will find the current Research Experiences for Undergraduate (REU) listings. They are from all over the country.

You may also want to visit Career Services (2nd floor WPU).

Ms. Emily Bennett can help you with opportunities available through their Office.

Finally, don't forget the Arts and Sciences Office of Experiential Learning (B-4, Thaw Hall). Mr. Patrick Mullen can assist you there.

With all of these opportunities available, it should be an exciting and productive summer for everyone. Good Luck!



American Chemical Society

Student Affiliates, University of Pittsburgh

Membership Application

This is a powerful professional organization for the benefit of individuals interested in chemistry and related fields. Our organization offers exciting extracurricular activities and many outstanding opportunities for our members, including:

- 1 WEEKLY MEETINGS**-to plan activities, provide interesting speakers, discuss ideas, and keep students aware of what is happening in the scientific community.
- 2 ANNUAL TRIPS**-Each year we sponsor (a) trip(s), to external chemistry environments, as well as for social enjoyment. Significantly reduced rates are available to active members. In the past few years we have traveled to New Orleans, Atlanta and New York.
- 3 PROFESSIONAL NETWORKING**-Our organization has many opportunities to make contacts with professionals in both the scientific industry and academia. Student affiliates also have the opportunity to join the National ACS.
- 4 SOCIAL ACTIVITIES**-We sponsor many activities throughout the year just for fun.

Our meetings are held every Friday at 12:00 noon in Room 150 Chevron Science Center. To join, complete the application form below and come to one of our meetings. Our first meeting will be January 19, 2018 but you may join any time throughout the year.

Name:	_____
School Address:	_____ _____
Permanent Address:	_____ _____
School Phone:	_____
Home Phone:	_____
Major:	_____
Year in School	Fr. So. Jr. Sr.
E-mail:	_____
May we include your name, number and e-mail on the published phone list?	YES NO

To submit this form by mail, send it to ACS-SA, Box 24, Chevron Science Center, University of Pittsburgh, Department of Chemistry, Pittsburgh, PA 15260. Be sure to include the \$15.00 dues (make checks payable to the University of Pittsburgh). It is possible to be active even if you can not attend the meetings. For more information, see our display case in the lobby of Chevron Science Center.

