SEPTEMBER 30, 2024

BMES NEWS

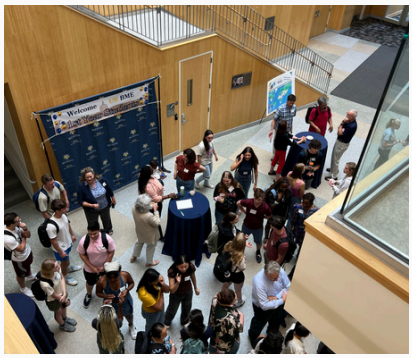
An official newsletter of the UR BMES student chapter

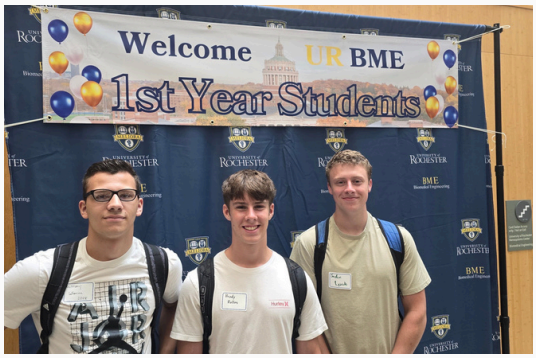
HIGHLIGHTS

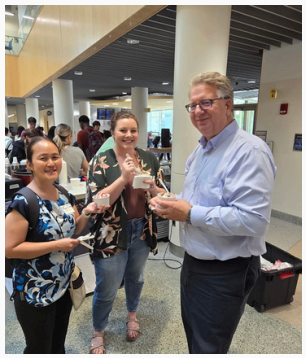
BY: MAHIMA VASUDEVAN

Ice Cream Social

BMES hosted an ice cream social to welcome underclassmen and officially introduce the 24-25 E-Board! Students had the opportunity to meet their peers, upperclassmen, TAs, and faculty.







Shout Out

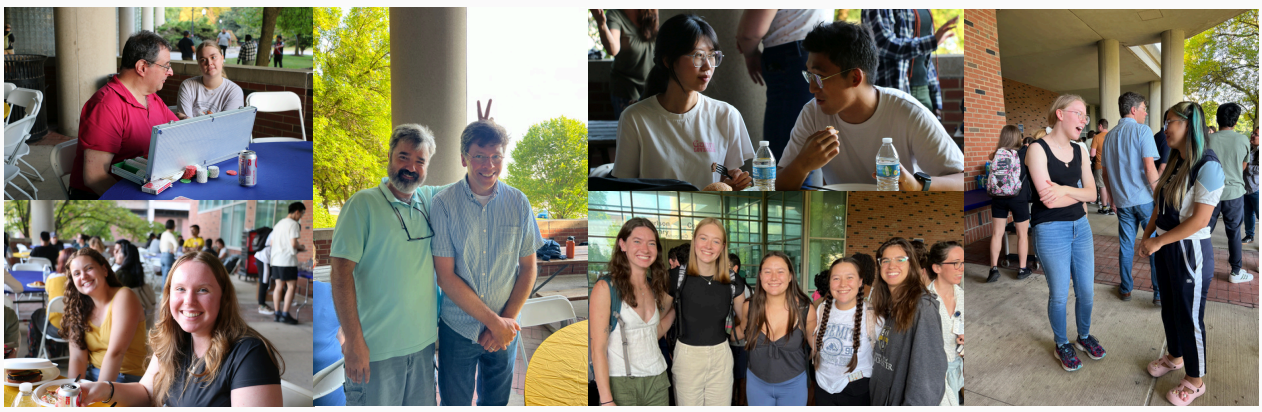
We thank Dr.Lerner for her time at the grad school information panel

Activities Fair

Check out our booth during activities fair? We have 26 new members ever since!

BMES Picnic

Hotdogs? Poker? Cool people? Where? On September 19th, BMES hosted a picnic open to BME students, staff, faculty and anyone interested in learning more about Biomedical Engineering!



Do YOU want to be featured?

Do you know someone that deserves the spotlight?

Scan the QR code above to be featured in this newsletter

Website
sa.rochester.edu/bmes/

Instagram
@bmes_at_uofr

Twitter @BMESatUofR

LinkedIn
BMES at University of Rochester

UPCOMING EVENTS...

BMES Poster Presentation

Are you interested in BME research? Want to see what your fellow scholars have been up to? Stop by Goergen 101 on October 7th 8PM to find out! Undergraduates are encouraged to attend and have the opportunity to practice presentation skills.

Spooky Season is Upon Us!

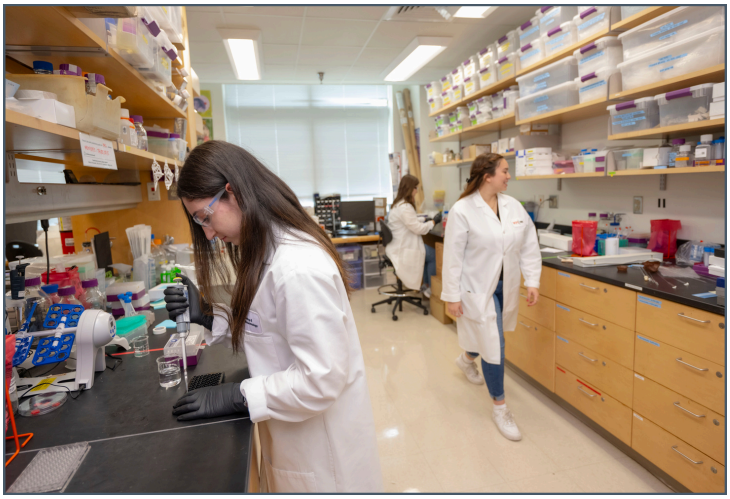
BMES will have a table on Spooky Science Day along with the Society of Physics students to interact with the Rochester Community! Volunteers needed on Saturday, October 26th from 12-4pm in Munnerlyn Atrium (first floor of Goergen). Email rzimmerl@u.rochester.edu if you are interested and join us in your best costume!

STUDENT SPOTLIGHT

KATHRYN LAMBRIGHT '26

This summer I had the opportunity to conduct research at the University of Kentucky through an NSF REU research internship. There, I worked at the Dibakar Bhattacharyya Lab researching the use of membranes in a tangential flow filtration system to clarify Adeno-associated virus particles from lysed cell mixtures, an important step in the production of viral vector-based gene therapies. Over the course of the summer, I characterized regenerated cellulose and polyethersulfone membranes, and performed both surface functionalization using zwitterionic esterification and in-pore functionalization using hydrogels. I also designed and conducted experiments to test Silica and Polystyrene particles for their comparative use in modeling AAV and lysed-cell particles; moveover, I conducted experiments to study fouling and backflow in polyethersulfone and isopore membranes. Through this research, I was able to gain a greater understanding in how gene therapies are produced and the complexities involved in pharmaceutical production.

Julia is a Junior BME major concentrating in Signals and Systems. She has worked in a quantitative neurology lab studying Parkinson's disease at Worcester Polytechnic institute, and at the Johnson lab working on wearable dialysis devices in URMC. She is currently working on putting together a review paper focusing on reliable and consistent plasma generation efforts. She also got to present her research at the BMES conference is 2023, and will be back again for more this year!



JULIA ROTHSCHILD '26