



Engineering the Next Generation

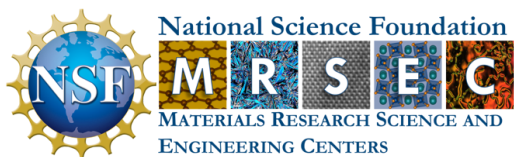
2019 FINAL PRESENTATIONS

FRIDAY, AUGUST 9TH

CEPSR 750 • 2:00 - 4:30 PM

Today's event features lightning presentations as well as group posters from each of the participants. We appreciate your hard work and dedication. Congratulations for completing the E.N.G. Program for Summer Research!

Thank you to our program partners:



COLUMBIA ENGINEERING
The Fu Foundation School of Engineering and Applied Science



THE HIGH SCHOOL FOR
MATH, SCIENCE AND ENGINEERING
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Time	Event
2:00pm - 2:15pm	Welcome and Introductions
2:15pm - 2:55pm	Lightning Talks
2:15pm - 2:20pm	Justin Cabrera & Jasper Stedman Fabricating DFB Laser Structures with 2D Materials PI: Dr. Vinod Menon, The City College of New York
2:20pm - 2:25pm	Chris Ilkow Weaving Nanoscale Cloth PI: Dr. Colin Nuckolls, Department of Chemistry
2:25pm - 2:30pm	Angella Baigorria & Elyas Ortecho-Rose Study of Passivation Effect of Solid Polymer Electrolytes on Lithium Electrodes by Stimulated Raman Scattering Spectroscopy PI: Dr. Yuan Yang, Department of Applied Mathematics and Applied Physics
2:30pm - 2:35pm	Issaka Dabre & Jessica Dilone Oxide Shell Growth on Silver Nanoparticles: Heat Treatment vs Light Irradiation PI: Dr. Lauren Marbella, Department of Chemical Engineering
2:35pm - 2:40pm	Arthur Rocha Testing Van Der Waals Interactions in Two Dimensional Materials PI: Dr. Jim Hone, Department of Mechanical Engineering
2:40pm - 2:45pm	Aboubakar Dabre & Fatoumata Diallo Effects of Light Exposure on Egg Laying by Fruit Flies Engineered to Express Optogenetic Tools PI: Dr. Karen Kasza, Department of Mechanical Engineering
2:45pm - 2:50pm	Ariel Kuhl & Omar Schmitt Customized, Automated Experimental System Design to Enable Novel Nano Material Studies PI: Dr. P. James Schuck, Department of Mechanical Engineering
2:50pm - 2:55pm	Chloe Levison & El-Hassn Salem Fluidized Particles PI: Dr. Chris Boyce, Department of Chemical Engineering
	Short Break
3:00pm - 4:00pm	Poster Session
4:00pm - 4:15pm	Thank You & Conclusion



Outreach programs at Columbia Engineering
Connecting local K-12 students and educators with world class STEM resources