Creating an Exciting Academic Atmosphere

In the last sixty years, half the growth of the U.S. economy has been directly attributable to advances and innovations in science and engineering. Innovation in these fields has never been more critical than it is now, and education has never been more central to that process.

The Grove School of Engineering at The City College of New York is ensuring that students are well prepared to meet these historic challenges by providing a rigorous curriculum, early and continuing mentorship, a strong devotion to research, opportunities for participation in national conferences, and a commitment to creating an exciting academic atmosphere.

• Our successful STEM Institute encourages high school students to pursue engineering and science careers.
• Our Student Research and Scholarship Center provides research training workshops to introduce freshmen and sophomores to our faculty and to help students get an early start in research laboratories. Their research activities are mentored by faculty and supported by government funding agencies and the Grove and Kayle Scholar programs.
• Our Office of Student Development keeps students informed about internship and summer research opportunities and oversees engineering student club activities, which are vital in organizing students into the academic community.
• Our students, by participating in summer research programs funded by the NSF, DOE, DOD, NIH and HHMI, gain exposure to national research laboratories and return with new insights, collaborators, and friends.
• Our senior design courses, the capstones of the Grove School’s rigorous curriculum, provide opportunities for every student to engage in challenging design projects and to solve problems as a team.
• Our students present their research and design projects at professional conferences of each discipline and national design competitions, as well as student-centered conferences, such as Einsteins in the City in New York and the Junior Scientist Conference in Vienna. These meetings and competitions open their minds and imaginations to broader challenges and provide great inspirations to their career development.

The research articles and experiences published in this edition of the Journal of Student Research reflect our students’ enthusiastic participation in research, as well as our faculty’s dedicated mentoring efforts. I am delighted to present in this journal the achievements, reflections, and insights of our young scientists and engineers; after all, they are our future.

Joseph Barba, Dean