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The Cornell Center for Materials Research Announces the Fall 2021 JumpStart Funded Companies

Ithaca, NY - The Cornell Center for Materials Research (CCMR) Industrial Partnerships Program is designed to help New York State's businesses access world-class capabilities; solve technical challenges; and develop and improve their products, with the ultimate goals of revenue growth and job creation.

During the 2021 Fall semester, four companies have been awarded funding to participate in the following collaborations:

- Halomine, Inc. (Ithaca) will collaborate with Geoff Coates, Professor of Chemistry and Chemical Biology, on the development of an N-halamine polymer additive that can be incorporated into common plastics resins like PP, PE and PVC to make an antimicrobial/anti-viral plastic that protects against pathogens and prevents the formation of biofilms.
- Iris Light Technologies, Inc., (Rochester) will collaborate with Lena Kourkoutis, Professor of Applied and Engineering Physics, to characterize black phosphorus nanomaterials using High Resolution Transmission Electron Microscopy and Electron Energy Loss Spectroscopy TEM-EELS. This will provide a better understanding of the basic properties, critical for designing electrical contacts and doping necessary for developing a laser technology for photonic chips.
- Momentum Optics, Inc., (Rochester) will collaborate with Gennady Shvets, Professor of Applied and Engineering Physics, on the development of processes for the rapid fabrication of technically challenging optic for an embedded imaging system (e.g. cameras) used in many consumer products.
- Naesscent, LLC., (New York) will collaborate with Alireza Abbaspourrad, Professor of Food Chemistry and Ingredient Technology, to develop an encapsulation roadmap to stabilize an existing natural insect repellent in a slow release matrix to maximize time of efficacy and minimize concentration.

JumpStart projects receive up to \$5,000 in matching funds for project costs that include faculty and research staff, facilities, services, supplies and materials. Since the program's inception, 109 companies have benefited from this program. The program is also supported by Empire State Development's Division of Science, Technology and Innovation (NYSTAR). Small to mid-sized New York State manufacturing and research and development businesses from the following industry sectors are eligible: materials, chemistry, energy, pharmaceuticals, food and textile.

About the Cornell Center for Materials Research (CCMR)

The Cornell Center for Materials Research is a National Science Foundation and New York State funded interdisciplinary research center at Cornell University whose mission is to advance, explore, and exploit the forefront of the science and engineering of advanced materials. The CCMR pursues this objective through fundamental, experimental and theoretical studies. Three other complementary functions complete the CCMR's mission: educational outreach to teachers and students; industrial outreach and knowledge transfer; and the operation of shared instrumentation in support of materials research both on and off campus. www.ccmr.cornell.edu/industry

About Empire State Development's Division of Science, Technology and Innovation

Empire State Development's Division of Science, Technology and Innovation (NYSTAR) supports collaborative industry/academic partnerships to foster integrated approaches for developing and commercializing innovative technologies. NYSTAR serves as a resource for small and startup technology companies. For more information, please visit www.esd.ny.gov/nystar/

About Halomine

Halomine, Inc. a Cornell University-based spin out company founded in 2018, is an innovative specialty chemical company that produces unique antimicrobial coatings that not only protect against pathogens, but also make surfaces easier to clean, resist adhesion, prevent fouling, and inhibit the formation of biofilms. Our unique combinations of specialty molecules and polymers are customized to manage surfaces against bacteria, mold, viruses, and soil loads in a wide variety of applications. Our first product, HaloFilm™, a chlorine extender, provides long lasting protection against viruses, bacteria, and molds in hospitals, schools, offices, mass transit, food processing, and more; wherever pathogens spread and endanger human health.

www.halomine.com

About Iris Light Technologies

Iris Light is a member of Luminate, a startup accelerator in Rochester focused on next-generation optics. Iris Light is developing color-versatile integrated lasers for the silicon photonics by printing nanomaterial inks directly onto silicon photonic chips.

<https://www.irislighttech.com/>

About Momentum Optics

Momentum Optics is a member of Luminate, a startup accelerator in Rochester focused on next-generation optics. Momentum Optics is developing an advanced manufacturing tool to address the need for more affordable optics.

<https://www.momentumoptics.com/>

About Naesscent

Naesscent is a five-year-old startup developing effective, targeted, natural solutions for insect control. These naturally derived insect repellent products are safe chemical free alternative for continuous use.

<https://www.naesscent.com/>

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