



LIGHT-MATTER SYMPOSIUM

October 12–13, 2026 • NYU

October 12 – 13, 2026
KIMMEL CENTER ROOM 914
NEW YORK UNIVERSITY



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Monday, Oct 12

9:00 am Arrival, Check-in, Continental Breakfast

9:20 am Opening Remarks: James Canary, Dean for Science,
Norah Hoffmann, Asst. Prof. of Chemistry, New York University

Session I **Chair: Kota Katsumi, New York University**

9:30 am Angel Rubio, MPSD and Flatiron Institute
*Controlling Chemistry and Material Properties in the Dark:
Shaping Matter with Dynamical Vacuum Fluctuations*

10:10 am Dmitri Basov, Columbia University
Cavity-altered Superconductivity

10:50 am Break

11:10 am Neepa Maitra, Rutgers University, Newark
Dysfunctional Functionals, Response Therapies, and Exact Factorization

11:50 am Wei Xiong, University of California, San Diego
A Rational Understanding of What Vibrational Polariton Can Do

12:30 pm Lunch

Session II **Chair: Jonas Börgel, New York University**

1:50 pm Joel Yuen-Zhou, University of California, San Diego
Quantum corrections to classical optics

2:30 pm Lasse Jensen, Pennsylvania State University
Beyond Homogeneous Fields in Surface-Enhanced Spectroscopies

3:10 pm Break

3:30 pm Latha Venkataraman, ISTA
Electroluminescence from Nanoscale Junctions

4:10 pm Teri Odom, Northwestern University
Light-Matter Interactions in Plasmonic Cavities

4:50 pm Break

5:00 pm **Poster Session and Reception, Grand Hall**

Tuesday, Oct 13

9:00 am Continental Breakfast, Informal networking

<u>Session III</u>	<u>Chair: Johannes Flick, CUNY and Flatiron Institute</u>
9:30 am	Bryan Goldsmith, University of Michigan <i>Understanding, simulating, and designing catalysts using machine learning</i>
10:10 am	Jillian Dempsey, University of North Carolina <i>Electrochemical Strategies for Modulating Strong Coupling in CdSe Exciton-Polaritons in Plasmonic Cavities</i>
10:50 am	Break
11:10 am	Timothy Berkelbach, Columbia University and Flatiron Institute <i>Constant-potential machine-learning interatomic potentials for electrochemistry</i>
11:50 am	Paul Dauenhauer, University of Minnesota <i>Programmable Catalysis with Light, Metals, and Charge</i>
12:30 pm	Lunch
<u>Session IV</u>	<u>Chair: Mark Tuckerman, New York University</u>
1:50 pm	Javad Shabani, New York University <i>Title TBA</i>
2:30 pm	Antonio Mezzacapo, NVIDIA <i>Quantum Accelerated Supercomputing</i>
3:10 pm	Break
3:30 pm	Victor Batista, Yale University <i>Studies of Catalysis in Natural and Artificial Photosynthesis</i>
4:10 pm	Javier Robledo Moreno, IBM <i>Quantum simulation on heterogeneous quantum-classical computing architectures</i>
4:50 pm	Closing Remarks: Norah Hoffmann
5:00 pm	Adjourn