

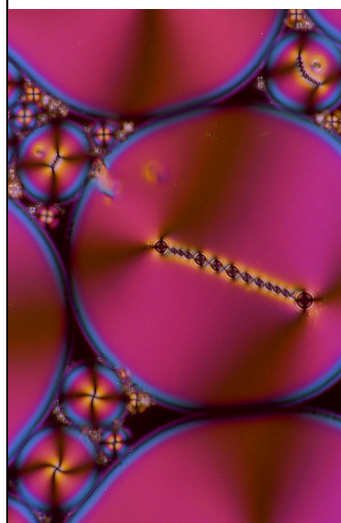
PHYSICS OF SOFT MATTER: SELF-ASSEMBLING, RESPONSIVE, SMART, (AND SQUISHY!)

honoring David Weitz

recipient of the 2024 Bower Award and Prize for Achievement in Science



David Weitz



A symposium of vignettes highlighting cutting-edge fundamental soft matter science and the impact of soft materials in technology.

APRIL 17, 2024

8:00 – 11:15 AM

Rose Recital Hall, Room 419

Fisher-Bennet Hall

University of Pennsylvania

3340 Walnut Street

Philadelphia, PA 19104

PARTICIPANTS: PAUL CHAIKIN
JOHN CROCKER
DOUGLAS DURIAN
ELENI KATIFORI
DAEYEON LEE
ANDREA LIU
ARNOLD MATHIJSSSEN
PHILIP NELSON
CHINEDUM OSUJI

PRICE: Free and open to the public

ORGANIZERS: Peter Collings, Swarthmore College
Arjun Yodh, University of Pennsylvania

WEBSITE: <https://www.lrsm.upenn.edu/event/fi-award-david-weitz/>

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8:00 – 8:30 AM Beverages, Breads, and Pastries
8:30 – 8:40 AM Welcome

Session I (Chair: Andrea Liu, University of Pennsylvania)

8:40 – 9:00 AM Paul Chaikin, Physics, New York University
“Artificial DNA Heat Engines/Muscles”
9:00 – 9:20 AM John Crocker, CBE, University of Pennsylvania
“Exploring Canyons in Glassy Energy Landscapes”
9:20 – 9:40 AM Douglas Durian, Physics, University of Pennsylvania
“Networks that Physically Learn Complex Functionality”
9:40 – 10:00 AM Daeyeon Lee, CBE, University of Pennsylvania
“Microfluidics to Macro Impact: Manufacturing Marvels”
10:00 – 10:30 AM Break

Session II (Chair: Philip Nelson, University of Pennsylvania)

10:30 – 10:50 AM Chinedum Osuji, CBE, University of Pennsylvania
“Self-assembly and Demixing of Liquid Crystal Mesophases”
10:50 – 11:20 AM Eleni Katifori, Physics, University of Pennsylvania
“Powering Flows”
11:20 – 11:30 AM Arnold Mathijssen, Physics, University of Pennsylvania
“Emergence of Collective Functionalities in Active Matter”

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