

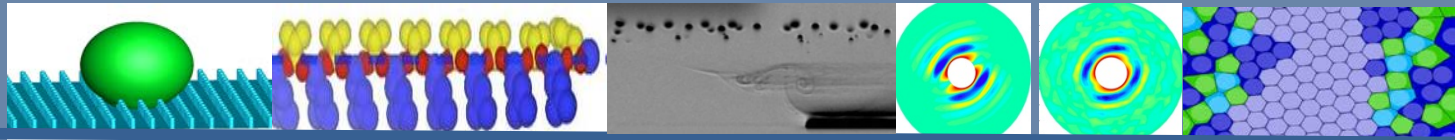
PREM: City College of New York – University of Chicago

Prof. Jeffrey Morris, PI
CCNY PREM
Chemical Engineering

Prof. Mark Shattuck, co-PI
CCNY PREM
Physics

Prof. Sidney Nagel, Co-PI
Univ. of Chicago MRSEC
Physics

Research support at CCNY: People, process, and dollars



Research Administration at CCNY -- \$58M / annum

- City University of New York
 - 20 member campuses --- City College (CCNY), Hunter College, Queens College, Brooklyn College, ...
 - Graduate Center: Consortium model Science PhD
 - Vice-Chancellor for Research (Dr. Gillian Small)

- Research Foundation, CUNY: Grant administration, IP negotiation, loans

Large \$ items/hiring commitments;
challenging IP negotiations

- City College --

- President

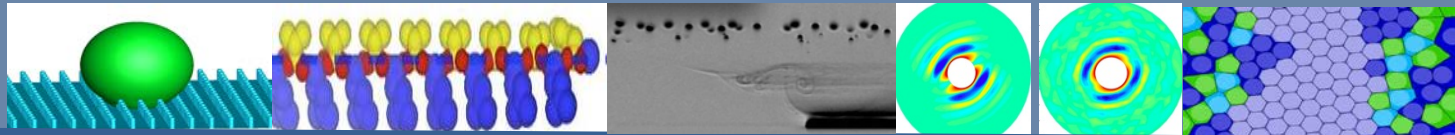
- Provost (& Vice-Provost for Research)

- Deans of Engineering and Science

- Department chairs / Center Directors (e.g. Levich Institute)

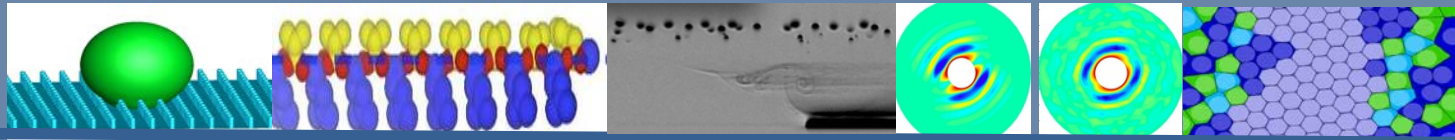
- Principal Investigators (e.g. PREM Directors)





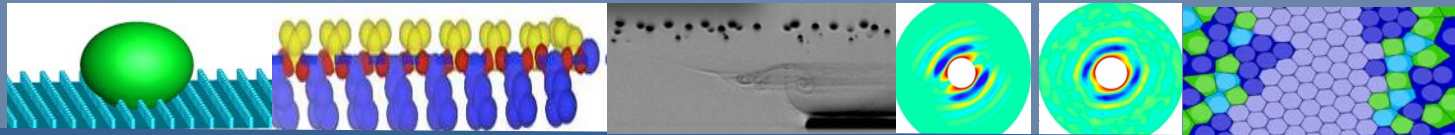
Academic Units within PREM

- Engineering
 - Chemical Engineering: Morris, Kretzschmar, Tu (Maldarelli)
 - Mechanical Engineering: Lee, Watkins
- Science
 - Physics: Shattuck, Koplik (Makse)
 - Chemistry: John
- Levich Institute: Koplik, Morris, Shattuck (Maldarelli, Makse)
 - *Critical soft materials / material dynamics focus*
- PhD degree
 - Engineering: PhD granted by CCNY
 - Science: Consortium model PhD w/ CUNY Graduate Center



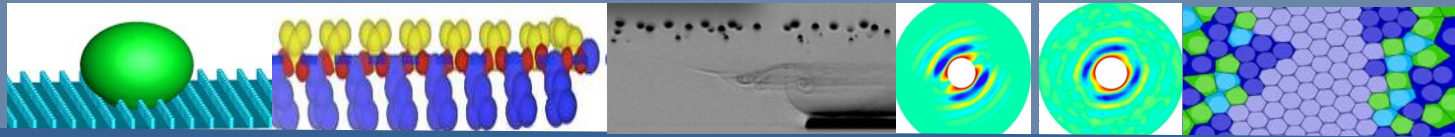
Students and advisement

- University support for students
 - First-year fellowships to departments (e.g. 8-12 in ChE last 4 years)
 - Tuition included
 - Student payment by stipend (no indirect costs) allowed if sponsor allows
 - Research support expected years 2-5
- Students often cross discipline lines
 - Engineers advised by Physicists
 - Co-advisement in Science and Engineering
 - Recruitment is facilitated
- Teaching
 - Students may serve as teaching assistants (easing teaching burden)
 - Serves as a partial financial safety net



Teaching

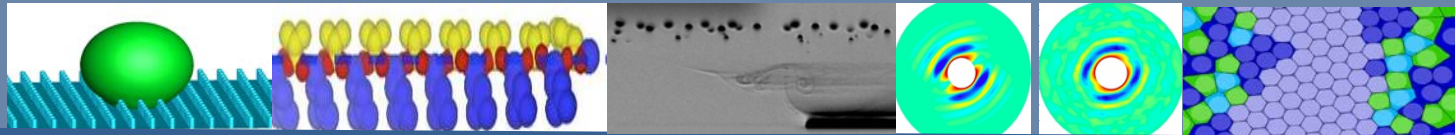
- Union (Professional Staff Congress, CUNY) requirements: 7 courses/year
- Reality: 2-4 courses / year (1-2 / semester) for research-active faculty
 - Buyout
 - Negotiated release or specific contracts (research centers have special deals)
 - Departmental standards
 - (ChE: 1 course / semester for research-active)
- Constant tension associated with these issues
 - Buyout dollars
 - Who teaches (faculty vs adjuncts)



Start-up, major equipment, major programs

- Present economic environment: start-up packages are departmental responsibility
- Historically (and in future ?), norm has been negotiation with Provost, with CUNY Vice-Chancellor for Research (VCR) able to provide CUNY support
- Major equipment often receives CUNY VCR support (shared equipment, e.g. TEM, AFM, etc)
- Major programs (e.g. NSF or other Federally-funded Center Development)
 - Negotiation with Deans and Provost
 - Weak point in our system: no clear protocol for rewarding success
 - Little support for administrative support personnel (requires soft money)
- CUNY Centers (e.g. Energy Institute) have some support personnel
- E.g. Computational initiatives facilitated by permanent IT staff





Concluding remarks: Influence of legacy

- Historically, CCNY was an undergraduate teaching institution—*clarity of mission*
PhD program was built as a consortium model among many colleges
- CCNY is now a research university, with major programs in Science/Engineering
- However, structural elements reflect the legacy
 - Registrar & Bursar treat PhD students as run-of-the-mill students
 - Library & Security services do not understand 24-hour research activity
 - Summer services (e.g. Food service, student services) generally much reduced: why provide service when most people are expected to be off campus?
- Legacy generates a critical bedrock (alumni and reputation)...with a tension.