

University of Delaware CHEM IUCRC Team:

David C. Martin, Associate Dean for Research and Entrepreneurship;
Conjugated Polymer Design and Characterization

Norman Wagner, NAE; Director of Center for Neutron Science;
Polymer Rheology and Neutron Scattering

Darrin Pochan, MSE Chair; Cryo-TEM and Directed Peptide Assembly

Arthi Jayaraman, CBE; Polymer Computational Modeling, Analytics





Thomas Epps



LaShanda Korley

29 Faculty

NSF: CHARM MRSEC
\$18M / 6 years

DOE: CPI EFRC
\$11.7M / 4 years

The screenshot shows the website for the Center for Research in Soft Matter & Polymers (CRISP) at the University of Delaware. The page features a blue header with the university logo and the center's name. A navigation menu includes links for 'ABOUT', 'PEOPLE', 'RESEARCH', 'SEMINARS', 'FACILITIES', 'NEWS', 'WORKING WITH US', and 'CONTACT'. Below the menu is a graphic with puzzle pieces representing different research areas: 'METROLOGY & INSTRUMENT DEVELOPMENT', 'POLYMERS & COLLOIDS', 'DESIGN, SYNTHESIS & PROCESSING', and 'MODELING & SIMULATION'. A central logo for 'Soft matter CRISP Polymers' is also present. Below the graphic, a message states 'This website is currently under construction...'. The 'CENTER OVERVIEW' section begins with the text: 'Established in the Spring of 2019 as a research unit within the College of Engineering of the University of Delaware, the Center for Research in Soft matter & Polymers (CRISP) serves to collaboratively advance transformative polymers and soft materials research by leveraging the burgeoning excellence of UD faculty, students, staff, and outside partnerships in this fast-growing and highly-interdisciplinary field. CRISP's vision is to become a world leader of vital next-generation materials and technologies, and our goal is to have a sustained impact on infrastructure, science, and technology at the University, in the region, and throughout the world. The center includes world-recognized faculty in polymers and soft materials (including National Academy Members, journal editors, scientific society presidents, national award winners, national advisory board members), and leverages a close proximity to global leaders in the chemical industry, national laboratories, and government agencies.'



Julius Korley

UD COE
Director of
Entrepreneurship and
Strategic Partnerships
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korley@udel.edu

Mag = 2.67 K X 1 μm
Auriga 60-39-95

WD = 4.5
FIB Image



The UD component of DRIVEN is being led by, from left to right: Steven Stanhope, principal investigator of Delaware INBRE and associate vice president for research; Julius Korley, principal investigator of UD's component of DRIVEN and director of entrepreneurship and strategic partnerships for the College of Engineering and CEO of Affinity Therapeutics; and Michael Bowman, associate director of the Office of Economic Innovation and Partnerships.

BRINGING LIFE-SAVING INNOVATIONS TO MARKET

Article by Julie Stewart | Photo by Evan Krape | Graphic by Joy Smoker | January 29, 2019

DRIVEN Accelerator Hub to boost medical entrepreneurship in the Northeast

The University of Delaware has joined a network of institutions in the Northeast aimed at helping people live longer, healthier lives. DRIVEN, a new accelerator hub for medical entrepreneurship funded by \$3.5 million from the National Institutes of Health (NIH), aims to help people live longer, healthier lives by increasing the number of quality medical startups in the Northeast, decreasing their time to market, and increasing their probability of success.

The DRIVEN Accelerator Hub also includes Celdara Medical, University of Vermont, Brown University, Dartmouth College, Maine Medical Center, Mount Desert Island Biological Laboratory, University of New Hampshire, University of Rhode Island and Simbex, a medical devices design company.

MORE RESEARCH STORIES

Coping After Breast Cancer
May 12, 2020
Article by Karen B. Roberts

Mothers Of Inventors
May 08, 2020
Article by Tracey Bryant, Beth M
Karen B. Roberts

Forecasting Urbanization
May 08, 2020
Article by Karen B. Roberts

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LABORATORY OF PROF. LAURE V. KAYSER

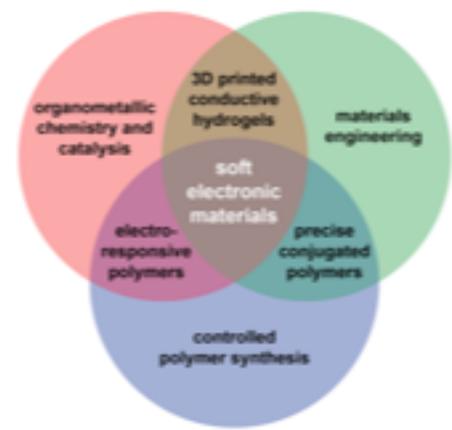
Department of Materials Science and Engineering
 Department of Chemistry and Biochemistry
 University of Delaware

- JOIN US -



Interested in organic electronics, polymer

- RESEARCH -



Our research expertise lies at the

- FOLLOW US ON TWITTER -

Tweets by @LaureKayserLab ⓘ

Kayser Lab
@LaureKayserLab

Applying to our fabulous Materials Science department just got better! For more updates on our research and information on how to apply, follow @udmseg and @ChemistryUD #GREexit <https://twitter.com/udmseg/status/1288162429374005250>

Jul 28, 2020

Kayser Lab Retweeted

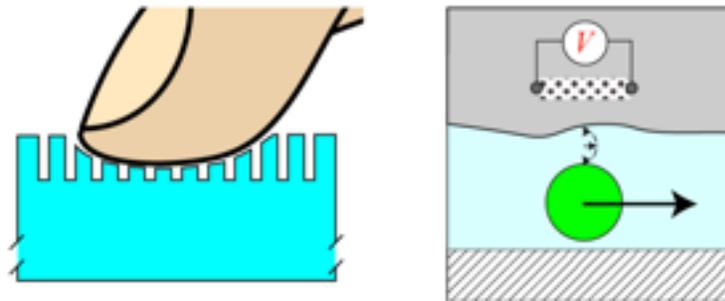
Materials Science at UD

DHONG LAB

Controlling Mechanical Forces at Biological Interfaces

HOME / RESEARCH / PEOPLE / OUTREACH / PUBLICATIONS / HIRING

Research



Functional Materials + Continuum Mechanics

Research in the Dhong Lab focuses on the role of mechanical forces at biological interfaces and how these forces lead to information or control. We are interested in what forces inform the human sense of touch and how these forces can be controlled to recapitulate tactile sensations. Our other interests are developing computational platforms that

RECENT POSTS

- [Welcome new members! Ghodeejah \(postdoc\) and Irene \(ug\)](#) April 22, 2020
- [Softness perception work highlighted in Gizmodo](#) March 31, 2020
- [Welcome new members Tianzheng \(gs\) and Kelly \(ug\)!](#) January 19, 2020
- [Welcome Abigail Nolin \(gs\) and Amanda Licht \(ug\)](#) December 16, 2019



The Interdisciplinary Science & Engineering Laboratory (ISE Lab) is the first major science building built on campus in more than 20 years.



The building has two wings: the research wing (right) and teaching wing (left).



Patrick T. Harker ISE-Lab

3,000 ft² Microscope Lab (8 rooms)

3,000 ft² Materials Characterization Lab

10,000 ft² Nanoprocessing / Cleanroom Facility

<http://www1.udel.edu/iselab/>



INTERDISCIPLINARY SCIENCE AND ENGINEERING BUILDING

FIRST FLOOR:

Materials Characterization:	2956sf
Imaging Rooms:	3321sf
Imaging Prep:	1150sf
Clean Room:	8316sf
Offices:	529sf



UD Microscopy Facility

1 m concrete slab for vibration isolation

Humidity control to +/- 5% of 50%

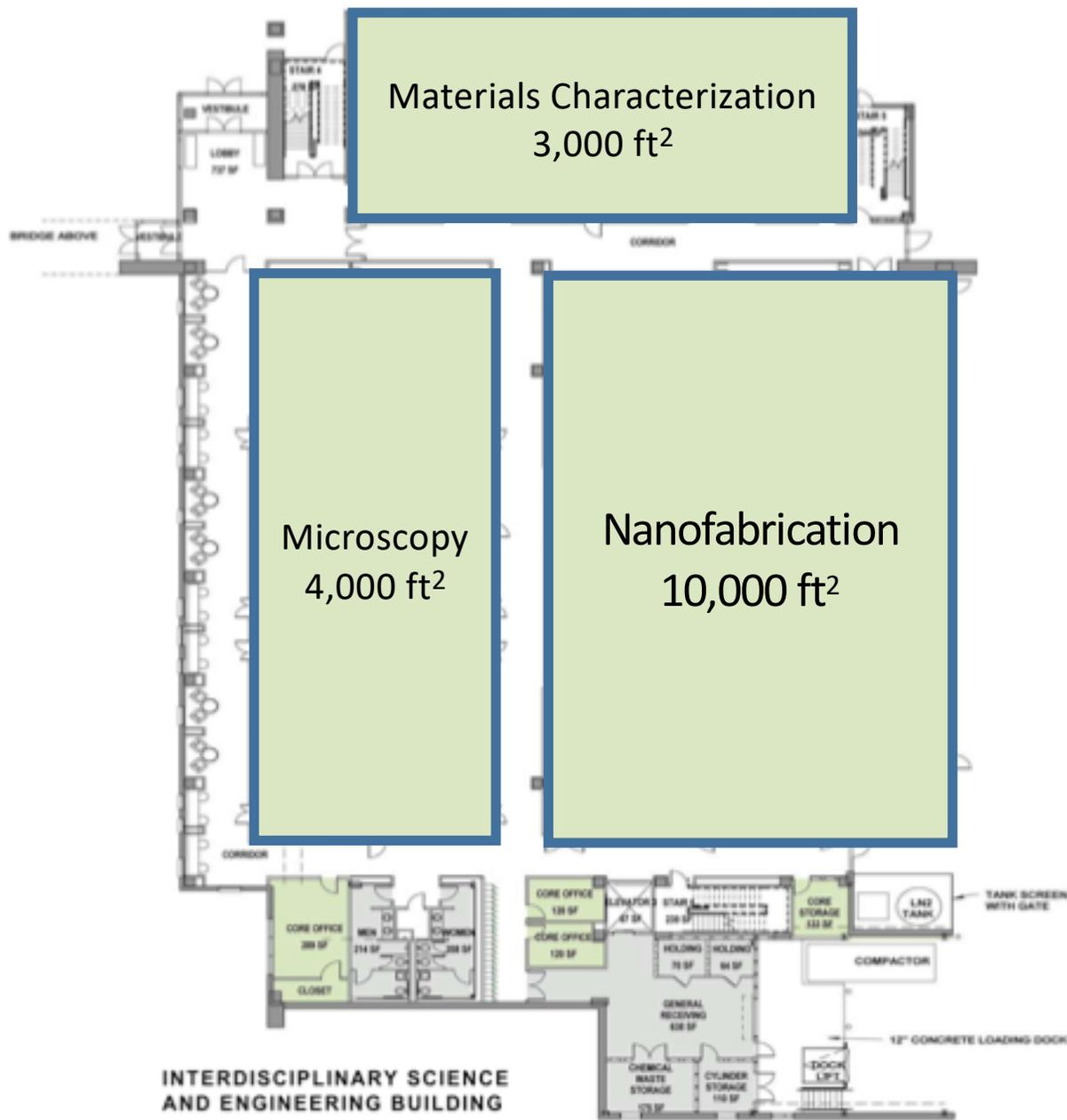
Temperature control to +/- 0.5 °C

Walls mechanically isolated from building

Electromagnetic shielding

2 sets of 4 rooms served by a utility chase

Imaging sample prep room



UD Microscopy Facility

1 m concrete slab for vibration isolation

Humidity control to +/- 5% of 50%

Temperature control to +/- 0.5 °C

Walls mechanically isolated from building

Electromagnetic shielding

2 sets of 4 rooms served by a utility chase

Imaging sample prep room

UD Microscopy Staff

Chaoying Ni, Ph.D., Professor of MSE, Lab Director

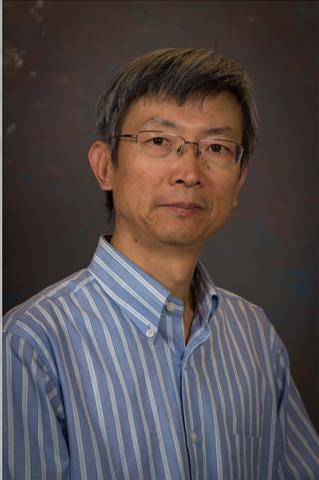
Jennifer Sloppy, Ph.D., Research Associate

Yong Zhao, Ph.D., Research Associate

Thomas Barkley, Research Associate

Frank Kriss, Senior Research Technician

<https://www.camm.udel.edu/>



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