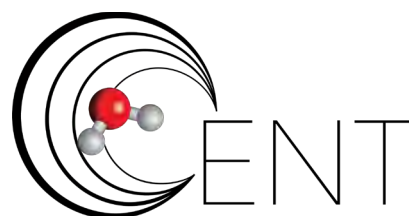


**Center for Enhanced Nanofluidic Transport**  
**Symposium - March 8 & 9, 2019**



**Day 1    March 8    Samberg Center, E52 – 6<sup>th</sup> Floor, Rm. 3 & 4**  
50 Memorial Dr. Cambridge, MA 02142

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**8:00 am – 9:00 am    Registration/Breakfast**

9:00 am – 9:05 am    **Opening Remarks**

9:05 am – 9:30 am    **CENT Overview**, Michael Strano, YuHuang Wang

9:30 am – 9:50 am    **Aleksandr Noy**, Lawrence Livermore National Laboratory  
*Confinement Effects in Ion Transport through Carbon Nanotube Porins*

9:55 am – 10:15 am    **Narayana Aluru**, University of Illinois  
*Multiscale Theory for Confined Fluids*

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**10:20 am – 10:50 am    Coffee Break**

10:50 am – 11:10 am    **Michael Strano**, Massachusetts Institute of Technology  
*Understanding Nanoscale Confinement and Fluid Phase Transitions*

11:15 am – 11:35 am    **Rahul P. Misra** (Blankschtein Group), Massachusetts Institute of Technology  
*Atomistic Modeling of Water and Ion Transport in Confinement using Polarizable Force Field-Based Molecular Dynamics Simulations*

11:40 am – 12:00 pm    **YuHuang Wang**, University of Maryland  
*Probing Single-Digit Nanopores with Single-Defect Spectroscopy*

12:05 pm – 12:25 pm    **Tuan Anh Pham**, Lawrence Livermore National Laboratory  
*Nanoscale Solvation from Ab-Initio Simulations*

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**12:30 pm – 2:00 pm    Lunch**

SAB Mentorship/Career Advice Lunch for Graduate Students and Postdocs

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2:00 pm – 2:20 pm    **Zuzanna Siwy**, University of California Irvine  
*Properties of Solid/Liquid Interfaces and their Consequences for Ionic Transport*

2:25 pm – 2:45 pm    **John Fourkas**, University of Maryland  
*Rethinking the Electrical Double Layer in Organic Solvents*

2:50 pm – 3:10 pm    **Martin Bazant**, Massachusetts Institute of Technology  
*Mathematical Modeling of Electrolytes in Nanopores*

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**3: 15 pm – 4:45 pm    Coffee Break | Poster Session**

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4:45 pm – 5:05 pm	<b>John Cumings</b> , University of Maryland <i>Liquids in TEM, Precipitation in Nanopores, and Planned Future Work</i>
5:10 pm – 5:30 pm	<b>Zhongyue Yang</b> (Kulik Group), Massachusetts Institute of Technology <i>Leveraging Large-Scale Electronic Structure for Multi-Scale Models of Nanofluidic Transport</i>
5:35 pm – 5:55 pm	<b>Stevie Walters</b> (Martin Group), University of Florida <i>Potentiometric Probing of Ionic Selectivity in Confined Solutions</i>

6:30 pm – 8:30 pm Dinner at Samberg Center – 6<sup>th</sup> Floor, Samberg Dining Rm. 4

**Day 2     March 9     MIT Building 66 (Landau), 25 Ames St, Cambridge**

<b>8:00 am – 9:00 am</b>	<b>Breakfast</b>	<b>Room 201</b>
9:00 am – 9:20 am	<b>Mark Reed</b> , Yale University <i>Solid State Nanofluidic Devices</i>	Room 110
9:25 am – 9:45 am	<b>Arun Majumdar</b> , Stanford University <i>Prospects of Molecular-Scale Chemical Imaging of Nanofluidic Structures and Devices</i>	Room 110
9:50 am – 10:10 am	<b>Menachem Elimelech</b> , Yale University <i>Selectivity of Sub-1-nm Multipore Systems</i>	Room 110
<b>10:15 am – 10:45 am</b>	<b>Coffee Break</b>	<b>Room 110</b>
10:45 am – 11:30 am	<b>SAB Panel</b>	Room 110
11:30 am – 12:15 pm	<b>SAP Closed Door Session with CENT leaders</b>	Room 360
	<b>Graduate students and Postdocs Meeting: Methods/Collaborations</b>	Room 110
<b>12:15 pm – 1:15 pm</b>	<b>Lunch</b>	<b>Room 201</b>
	<b>Symposium Highlights/Synthesis</b>	Room 110
1:15 pm – 1:20 pm	Thrust 1: Aleksandr Noy	
1:20 pm – 1:25 pm	Thrust 2: Zuzanna Siwy	
1:25 pm – 1:30 pm	Thrust 3: Mark Reed	
1:30 pm – 1:40 pm	<b>Closing Remarks</b>	Room 110
1:40 pm – 2:20 pm	Management Report Meeting	Room 360
	Meeting for EFRC Principal Investigator's Meeting, July 29-30	Room 480
	Meetings with your Collaborators	Rooms 201/269/319/480/546
2:20 pm – 3:00 pm	Annual Report Meeting	Room 360
	Meetings with your Collaborators	Rooms 201/269/319/480/546

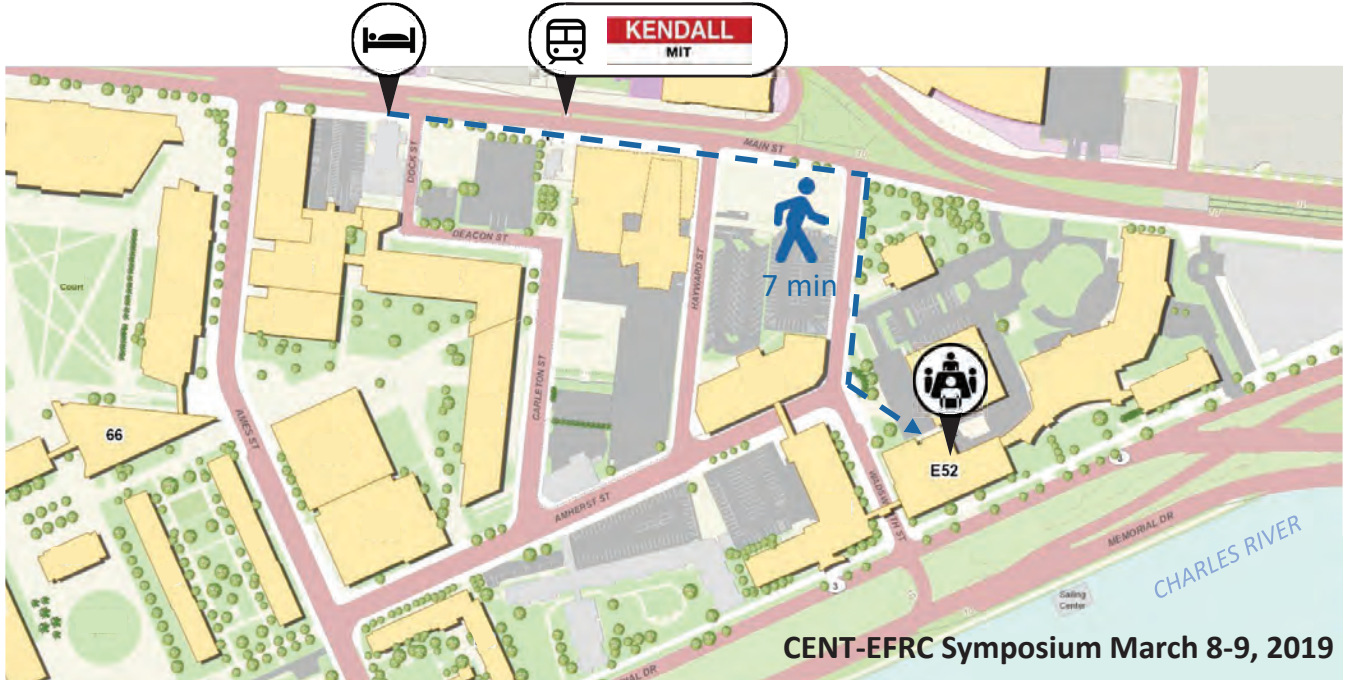
# FRIDAY March 8



617 577 1300  
The Kendall Hotel  
350 Main St, Cambridge




Samberg Conference Center, MIT Building E52  
50 Memorial Dr, Cambridge



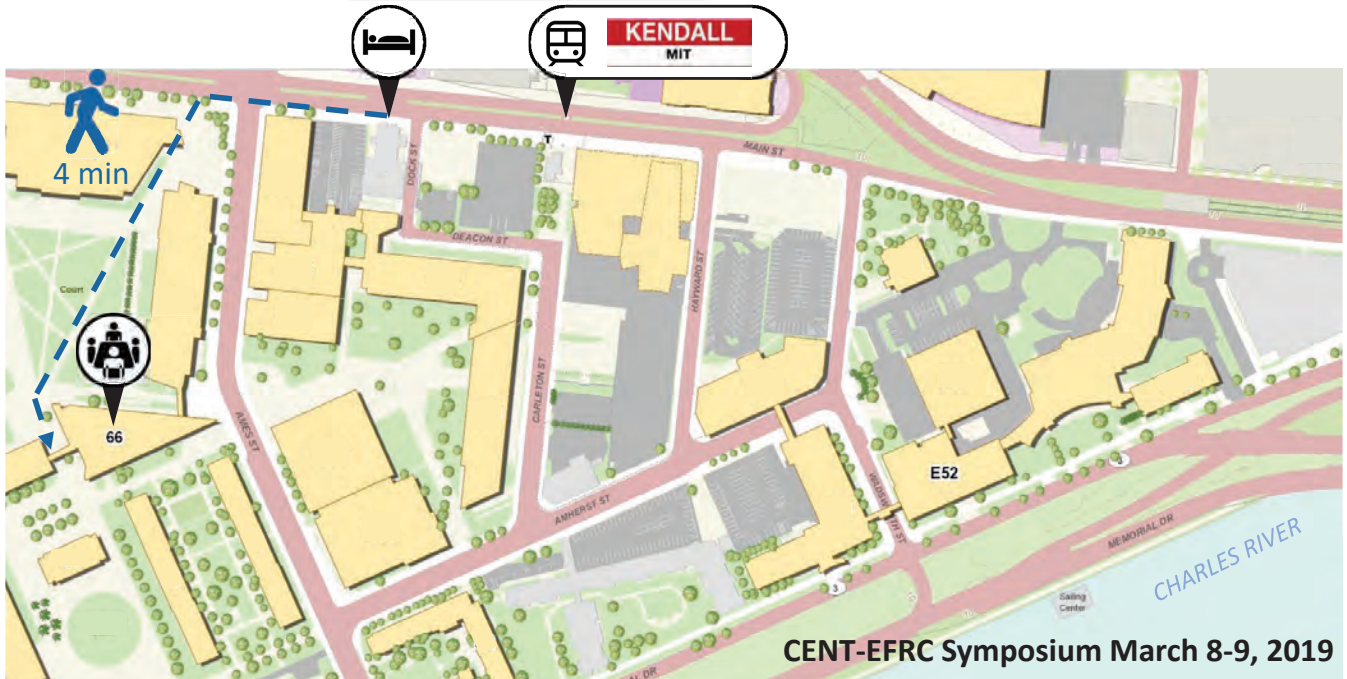
# SATURDAY March 9



617 577 1300  
The Kendall Hotel  
350 Main St, Cambridge




MIT Building 66 (Landau Building), Room 110  
25 Ames St, Cambridge

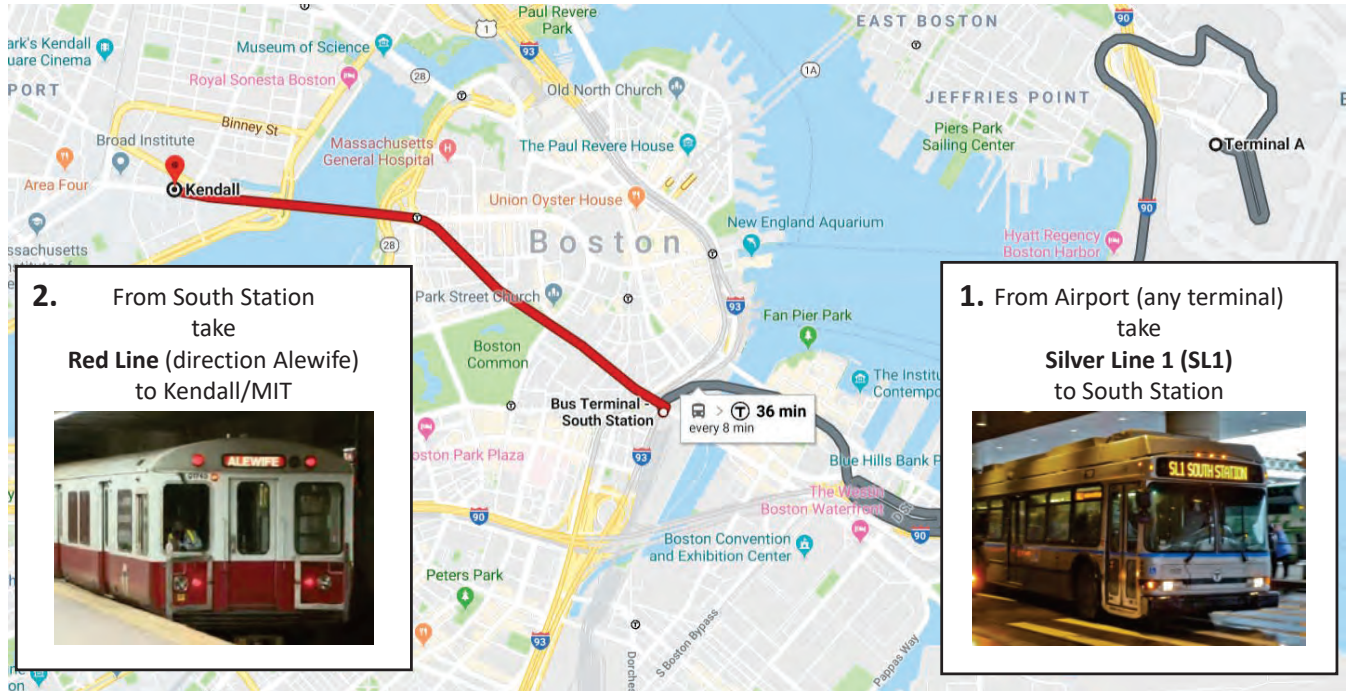


# Boston Airport - MIT


From **Boston Logan Airport** to **Kendall/MIT** takes about

... 15 min by car


... 40 min by public transport, in Boston called . See below for instructions:



**2.** From South Station take **Red Line (direction Alewife)** to Kendall/MIT



**1.** From Airport (any terminal) take **Silver Line 1 (SL1)** to South Station



## Useful information

Contact person: **Brenda Pelletier** Email [bpelleti@mit.edu](mailto:bpelleti@mit.edu)  
Office 617-324-7569  
Cell 603-365-1403

MIT whereabouts: [whereis.mit.edu](http://whereis.mit.edu)

Wireless LAN: Eduroam



MIT GUEST

