

## Chemical Engineering

Session **F**

Room: 113 Spalding Lab

1:00 - 1:20 PM	<b>Sudarshanagopal Kunnavaakkam</b> <i>Arthur A. Noyes SURF Fellow</i>	Building Cell Radios for Deep-tissue Wireless Detection of Biochemical Factors	Mikhail G. Shapiro <i>Max Delbrück Professor of Chemical Engineering and Medical Engineering; Investigator, Howard Hughes Medical Institute</i> William Benman <i>Postdoctoral Scholar Research Associate in Chemical Engineering</i>
1:20 - 1:40 PM	<b>Patrick T. Bednarz</b> <i>Rice University</i>	Noninvasive Monitoring of Cardiovascular and Endometriosis Biomarkers Using an Engineered Acoustic Biosensor	Mikhail G. Shapiro <i>Max Delbrück Professor of Chemical Engineering and Medical Engineering; Investigator, Howard Hughes Medical Institute</i> Elizabeth Hughes <i>Graduate Student in Bioengineering</i>
1:40 - 2:00 PM	<b>Hannah R. Bachmann</b> <i>University of Minnesota - Twin Cities</i> <i>Resnick Sustainability Institute (RSI) WAVE Fellow</i>	Investigating <i>Bacillus subtilis</i> as a Microbial Delivery System for Sustained Plant Peptide Hormone Release in Soil	Gözde S. Demirer <i>Clare Booth Luce Assistant Professor of Chemical Engineering</i> Carl McCombe <i>Postdoctoral Scholar Research Associate in Chemical Engineering</i>
2:00 - 2:20 PM	<b>Ryan D. Yu</b> <i>John Stauffer SURF Fellow</i>	Rationalizing Specific Ion Effects in Electrochemical Nitrate Reduction Using Machine Learning Potential Simulations	Kara D. Fong <i>Assistant Professor of Chemical Engineering</i> Madeline Murphy <i>Graduate Student in Chemical Engineering</i>
2:20 - 2:40 PM	<b>Ian E. Rocha</b> <i>Northeastern University</i> <i>Resnick Sustainability Institute (RSI) WAVE Fellow</i>	Development of a Microfluidic Platform for Uniform Cell-Laden Hydrogel Spheres	Julia A. Kornfield <i>Elizabeth W. Gilloon Professor of Chemical Engineering</i> Raj S. Mukkamala <i>Graduate Student in Chemical Engineering</i> Rohit Srikanth <i>Graduate Student in Medical Engineering</i>