### Chemistry Session D

**Room:** 235 Gates-Thomas

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<th>Time</th>
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| 1:20 - 1:40 PM| **Lily K. DeBell**          | Analysis of Bacterial Genome Content Diversity Through Structural Studies of ClC Chloride Channel Homologs | William M. Clemons  
Arthur and Marian Hanisch  
Memorial Professor of Biochemistry  
Shivansh Mahajan  
Graduate Student in Biochemistry and Molecular Biophysics |
| 1:40 - 2:00 PM| **Mahi Ravi**               | Eliciting the Mechanism of Action of mGlu4, a Class C GPCR           | William A. Goddard III  
Charles and Mary Ferkel Professor of Chemistry, Materials Science, and Applied Physics  
Soo-Kyung Kim  
Scientific Research Lead in Chemistry and Chemical Engineering |
| 2:00 - 2:20 PM| **Anna Mortari**            | Validation of Thermophilic Eukaryotic Model Organism Through the Reconstitution of Cytoplasmic Filament NPC Complex | André Hoelz  
Mary and Charles Ferkel Professor of Chemistry and Biochemistry  
George W. Mobbs  
Senior Postdoctoral Scholar Research Associate in Chemistry |
| 2:20 - 2:40 PM| **Ritvik S. Teegavarapu**   | Optimization of a Computationally Efficient Approach to Improve Microbiome Sequencing Analyses | Rustem F. Ismagilov  
Ethel Wilson Bowles and Robert Bowles Professor of Chemistry and Chemical Engineering  
Matthew Cooper  
Graduate Student in Biochemistry and Molecular Biophysics |
| 2:40 – 2:50 PM| **BREAK**                   |                                                                      |                                                                                |
| 2:50 - 3:10 PM| **Bao T. Nguyen**           | Variation of Protic Ligand in Well-defined SmII-based PCET Donors: Thermochemistry and Selectivity | Jonas C. Peters  
Bren Professor of Chemistry  
Emily Boyd  
Graduate Student in Chemistry |
| 3:10 - 3:30 PM| **Sanjana S. Shah**         | Exploring Ruthenium Photosensitizers for Photodriven N₂ Reduction   | Jonas C. Peters  
Bren Professor of Chemistry  
Christian M. Johansen  
Graduate Student in Chemistry |
| 3:30 - 3:50 PM| **Luke F. Zhou**            | Accessing Lewis Acid-activated N₂ Complexes for Potential Fe-catalyzed Photo-driven N₂ Reduction | Jonas C. Peters  
Bren Professor of Chemistry  
Emily Boyd  
Graduate Student in Chemistry |
Cameron E. Scantlin  
John Stauffer SURF Fellow  
Comparing the Structure of Nitrogenase Proteins Across Multiple Diazotrophs  

Douglas C. Rees  
Roscoe Gilkey Dickinson Professor of Chemistry; Investigator, Howard Hughes Medical Institute  
Rebeccah Warmack  
Postdoctoral Scholar Fellowship Trainee in Chemistry