

## Astrochemistry in the Southeast & Beyond!

### Laboratory/ Theoretical Astrochemistry & Beyond

Time	Presenter	Title
8:10	Fortenberry, Ryan C.	Introductory Remarks
8:15	Raston, Paul	Far-infrared synchrotron spectroscopy of some important interstellar molecules
8:45	Shipman, Steve	Tools to rapidly assign the rotational spectra of molecules in vibrationally excited states
9:15	DeYonker, Nathan	Rovibrational Spectroscopy of Magnesium Acetylide (MgCCH) and Its Detection in the Interstellar Medium
9:45	Milam, Stefanie	Interstellar Inheritance of Primitive Bodies in the Solar System
10:15	Intermission	
10:35	Duncan, Mike	Infrared spectroscopy of hydrogen molecular ions and their clusters
11:05	Abbott-Lyon, Heather	Challenges and opportunities in the investigation of astrochemical surface chemistry
11:35	Lee, Zachary	Ab-initio Predictions for the Formation of SO <sub>x</sub> and NO <sub>x</sub> based Brønsted Acids with Atmospheric and Astrochemical Implications
11:55	End Session 1	

### Solar System Astrochemistry & Beyond

1:30	Fortenberry, Ryan C.	Introductory Remarks
1:35	Widicus Weaver, Susanna	Millimeter/Submillimeter Spectroscopic Detection of Desorbed Ices: A New Technique in Laboratory Astrochemistry
2:05	Pierce, Donna	Fragment species in the comae of comets: Observations and challenges
2:35	Orlando, Thom	Molecular water ice formation and processing in solar systems
3:05	Intermission	
3:25	White, Doug	Laboratory studies of thermally processed ice mixtures relevant to outer-planetary surfaces
3:55	Stockton, Amanda	High Impact Chemistry – Design and Testing an Icy Moon Penetrator Organic Analyzer
4:25	Bennett, Chris	A Potential Pathway to O <sub>2</sub> Observed in Comets 67P/Churyumov–Gerasimenko and 9P/Tempel: Dissociation of Radiolytically Produced Parent Carbon Oxide Species
4:55	Fortenberry, Ryan C.	Concluding Remarks
5:00	End Session 2	