Sunday, July 6	
3:00 pm-6:00 pm	Check-in and badge pickup
6:00 pm-7:30 pm	Dinner
7:30 pm-9:00 pm	**Welcome and Keynote Address**
7:30 pm-7:45 pm	Welcome by **Amy Mullin** (University of Maryland)
7:45 pm-8:00 pm	Keynote Introduction by **Art Utz** (Tufts University)
8:00 pm-8:45 pm	Keynote Address by **Alec Wodtke** (Max Planck Institute for Multidisciplinary Science and Institute for Physical Chemistry, Göttingen) "A Golden Age of Quantitative Chemistry: Experiment, Theory and the Dynamics of Molecular Collisions"
8:45 pm-9:00 pm	Discussion
9:00 pm	Reception

Monday July 7	
7:00 am-8:10 am	Breakfast
8:10 am-12:00 pm	**Bimolecular Collision Dynamics**
8:10 am-8:25 am	Session Introduction: **Stephen Klippenstein** (Argonne National Laboratory)
8:25 am-8:55 am	**Richard D Thomas** (Stockholm University) "Probing molecular mutual neutralization reactions of atmospheric importance using the ion storage facility DESIREE"
8:55 am-9:05 am	Discussion
9:05 am-9:35 am	**Jennifer Meyer** (RPTU Kaiserslautern-Landau) "Dynamics of CO_2 action by transition metal ions: Competition between spin-changing and spin-conserving pathways"

9:35 am- 9:45 am	Discussion
9:45 am-10:05 am	**Andrew Petit** (California State University, Fullerton) "New Insights into the Electronic Quenching of NO* with Acetylene: Energy Transfer Versus the Harpoon Mechanism"
10:05 am- 10:10 am	Discussion
10:10 am-10:40 am	Coffee Break
10:40 am-11:10 am	**Richard Dawes** (Missouri University of Science and Technology) "Methods for PES Construction with Applications: Typical and Special Cases, Diabatization, and the Long Range"
11:10 am-11:20 am	Discussion
11:20 am- 11:50 am	**Arthur Suits** (University of Missouri) "New Probes of Kinetics and Spectroscopy in Supersonic Flows"
11:50 am-12:00 pm	Discussion
12:00 pm-1:00 pm	Lunch
1:00 pm-5:00 pm	Afternoon Break
5:00 pm-6:00 pm	**Hot Topic Poster Previews**
	Greta Jacobson (University of Washington) "Machine Learning Approaches for Developing Potential Surfaces: Applications to OH-(H_2O)n (n=1-4) Complexes" **Yang Liu** (University of New Mexico) "Kinetics and Product Branching in Dihydrogen Activation by Gaseous Manganese Oxide Cations" **Olivia Krohn** (Sandia National Laboratory) "Ultrahigh Velocity Resolution for Inelastic Scattering Dynamics" **Chow Shing Lam** (University of Oxford) "Probing the Ultrafast Dynamics of Nitrobenzene through Time-Resolved Coulomb Explosion Imaging" **Chao He** (University of Basel) "Exploring the Chemi-ionization of Carbonyl Sulfide (OCS) with Metastable Neon via Velocity Map Imaging"

	John Hack (University of California, Berkeley) "Coherent Vibrations in C-I Bond Dissociation Studied with Carbon K-edge Transient Absorption" **Simone DeSouza** (University of Maryland) "Dynamics of Optically Centrifuged N_2O in Extreme Rotational States Studied with Transient IR Absorption Spectroscopy" **Madison Foreman** (University of California, Berkeley) "Molecular Beam Scattering from Flat Liquid Jets: Exploring Dynamics at the Aqueous Interface"
6:00-7:15 pm	Dinner
7:15 pm-9:30 pm	**Collision Dynamics in the Condensed Phase**
7:15 pm- 7:30 pm	Session Introduction: **Stephen Bradforth** (University of Southern California)
7:30 pm-8:00 pm	**Ward Thompson** (University of Kansas) "Activation Energies Beyond Arrhenius"
8:00 pm-8:10pm	Discussion
8:10 pm-8:40 pm	**Chris Elles** (University of Kansas) "Ultrafast Dynamics of Manganese Tricarbonyl Coordination Complexes"
8:40 pm-8:50 pm	Discussion
8:50 pm-9:20 pm	**Graham Worth** (University College London) "Simulating Non-adiabatic in Photo-excited Reactions using Direct Quantum Dynamics"
9:20 pm-9:30 pm	Discussion
9:30 pm	**Poster Session 1 (A posters)**

Tuesday, July 8	
7:00 am-8:10 am	Breakfast
8:10 am – 12:00 pm	**Photodissociation Dynamics**

8:10 am-8:25 am	Session Introduction: **Marsha Lester** (University of Pennsylvania)
8:25 am-8:55 am	**Mike Duncan** (University of Georgia) "Infrared and UV-Visible Photodissociation of Organometallic Cations"
8:55 am- 9:05 am	Discussion
9:05 am-9:35 am	**Daniel Neumark** (University of California, Berkeley) "Photodissociation dynamics investigated using XUV and soft x-ray attosecond transient absorption"
9:35 am-9:45 am	Discussion
9:45 am-10:05 am	**Joseph McManus** (University of Oxford) "Tracking ultrafast structural change in photoexcited cis and trans isomers"
10:05 am-10:10 am	Discussion
10:10 am-10:40 am	Coffee Break
10:40 am-11:10 am	**Katharine Tibbetts** "Ultrafast Photodissociation Dynamics in Energetic Molecules"
	Discussion
11:20-11:50 am	**Jingsong Zhang** "Isomer selected photochemistry of C_4H_7 radicals"
11:50 am-12:00 pm	Discussion
12:00 pm- 1:00 pm	Lunch
1:00 pm-5:00 pm	Afternoon Break
5:00 pm-7:15 pm	**Dynamics and Potential Energy Surfaces- In honor of David Yarkony**
5:00 pm-5:15 pm	Session Introduction: **Hua Guo** (University of New Mexico)
5:15 pm-5:45 pm	**Spiridoula Matsika** (Temple University) "Modeling Ultrafast Excited State Dynamics"

5:45 pm-5:55 pm	Discussion
5:55 pm- 6:25 pm	**Michael Schuurman** (University of Ottawa) "The UV Absorption and Time-Resolved Spectroscopy of Ethylene: A New Theoretical Model"
6:25 pm – 6:35 pm	Discussion
6:35 pm-7:05 pm	**Benjamine Levine** (Stonybrook University) "First Principles Simulation of Coherent Dynamics on Many Electronic States"
7:05 pm-7:15 pm	Discussion
7:15 pm-8:15 pm	Dinner
8:15 pm	**Poster Session 2 (A posters)**

Wednesday, July 9	
7:00 am-8:10 am	Breakfast
8:10 am-12:00 pm	**Dynamics of Interfacial Collisions**
8:10 am-8:25 am	Session Introduction by **Art Utz** (Tufts University)
8:25-8:55 am	**David Nesbitt** (JILA, University of Colorado) "Making a Splash: Chemical Physics at the Gas-Liquid Interface"
8:55 am-9:05 pm	Discussion
9:05 am-9:35 am	**Theofanis Kitsopoulos** "Applying Ion Imaging Methods to Site Specific Elementary Reactions in Heterogeneous Catalysis"
9:35 am-9:45 am	Discussion
9:45 am-10:05 am	**Mihai E. Vaida** "Facet-Dependent Ultrafast Photoinduced Reaction Dynamics of CH_3I Ion TiO_2 Surfaces"

10:05 am-10:10 am	Discussion
10:10 am-10:40 am	Coffee Break
10:40 am-11:10 am	**G. Barratt Park** (Texas Tech University) "State-to-State Scattering of Open Shell Atoms from Surfaces"
10:10 am-10:20 am	Discussion
11:20 am-11:50 am	**George Schatz** (Northwestern University) "Nonadiabatic Dynamics and Ionization in N+ N and N + O Collisions"
11:50 am - 12:00 pm	Discussion
12:00 pm – 1:00 pm	Lunch
1:00 pm – 5:00 pm	Afternoon Break
5:00 pm – 6:00 pm	Business Meeting
6:00 pm – 7:15 pm	Dinner
7:15 pm - 9:30 pm	**Herschbach Medal Session**
7:15 pm-7:30 pm	Session Introduction: **Arthur Suits** (University of Missouri)
7:30 pm-7:45 pm	Introduction of David Chandler: **Mark Johnson** (Yale University)
7:45 pm-8:30 pm	**David W. Chandler** (Sandia National Laboratory) "Measuring Velocity With High Resolution for Low Energy Molecules and Electrons"
8:30 pm-8:45 pm	Introduction of Anne McCoy: **Mark Johnson** (Yale University)
8:45 pm-9:30 pm	**Anne B. McCoy** (University of Washington) "Deciphering spectral signatures of proton delocalization in complexes of hydroxide and hydronium ions with water molecules"
9:30 pm	**Poster Session 3 (B posters)**

Thursday, July 10	
7:00 am-8:10 am	Breakfast
8:10 am-12:00 pm	**Spectroscopy, dynamics, and electronic structure: In honor of John Stanton**
8:10 am-8: 25 am	Session Introduction: **Anne McCoy** (University of Washington)
8:25 am - 8:55 am	**Jan Martin** (University of Florida) "Exploiting a Shortcoming of Coupled-Cluster Theory: The Extent of non-Hermiticity as a Diagnostic Indicator of Computational Accuracy"
8:55 am-9:05 am	Discussion
9:05 am-9:35 am	**Rigoberto Hernandez** (Johns Hopkins University) "Classical and Semiclassical Transition State Theory: Old and New"
9:35 am-9:45 am	Discussion
9:45 am-10:05 am	**Yaolong Zhang** (University of New Mexico) SchrödingerNet: A Universal Neural Network Solver for The Schrödinger Equation
10:05 am-10:10 am	Discussion
10:10 am-10:40 am	Coffee Break
10:40 am-11:10 am	**David Tannor** (Weizman Institute of Science) "Two Hundred Years after Hamilton: Exploring New Formulations of Classical and Quantum Mechanics"
10:10 am-11:20 am	Discussion
11:20 am-11:50 am	**Carolin Anna Joy** (Marquette University) "Recent Advances in Mixed Quantum/Classical Theory (MQCT) for Molecule + Molecule Collisions"
11:50 am-12:00 pm	Discussion
12:00 pm -1:00 pm	Lunch

1:00 pm-5:00 pm	Afternoon Break
5:00 pm-7:15 pm	**Quantum Control of Reaction Dynamics**
5:00 pm-5:15 pm	Session Introduction: **Amy Mullin**
5:15 pm-5:45 pm	**Marissa Weichman** (Princeton University) "New Platforms for Molecular Polariton Dynamics"
5:45 pm-5:55 pm	Discussion
5:55 pm-6:25 pm	**Helen Chadwick** (Swansea University) "Rotationally controlled hydrogen-surface reactions"
6:25 pm-6:35 pm	Discussion
6:35 pm-7:05 pm	**Yu Liu** (University of Maryland) "Advancing reaction dynamics with ultracold molecules"
7:05 pm-7:15 pm	Discussion
7:15 pm-8:15 pm	Dinner
8:15 pm	**Poster Session 4 (B posters)**

Friday, July 11	
7:00 am-8:10 am	Breakfast
8:10 am - 8:25 am	**Applications of Molecular Collision Dynamics**
8:10 am-8:15 am	Session Introduction: **Ahren Jasper** (Argonne National Laboratory)
8:25 am-8:55 am	**Robert Continetti** (University of California, San Diego) "Hypervelocity Ice Grain Impact Mass Spectrometry and the Search for Extraterrestrial Biosignatures"
8:55 am-9:05 am	Discussion
9:05 am-9:35 am	**Arkke Eskola** (University of Helsinki)

	"Direct Kinetic Studies of Unimolecular and Bimolecular Reactions of Criegee Intermediates"
9:35 am-9:45 am	Discussion
9:45 am-10:05 am	**Shane Goettl** (University of Hawaii) "Gas-Phase Synthesis of Cyclic Silicon Dicarbide (c-SiC2) and Bicyclic Silicon Tricarbide (c-SiC3) via Single Collision Events from Acyclic Transients"
10:05 am-10:10 am	Discussion
10:10 am-10:40 am	Coffee Break
10:40 am-11:10 am	**Denisia Popolan-Vaida** (University of Central Florida) "Influence of Carbon Chain Length, Functionality, and Reaction Environment on C1-C7 Criegee Intermediates Reaction Networks"
11:10 am-11:20 am	Discussion
11:20 am-11:50 am	**Brandon Rotavera** (University of Georgia) "Bimolecular Reactions of Cyclic Ether Radicals"
11:50 am-12:00 pm	Discussion
12:00 pm-12:05 pm	Thanks and DMC XXX Ahren Jasper
12:05 pm-1:30 pm	Box lunches in lobby outside lecture hall