Telluride Science Research Center

Spectroscopy & Dynamics on Multiple Potential Energy Surfaces

July 9 – 13, 2012

**Monday morning, July 9** (session chair: Trevor Sears)

Note: 45 minutes allotted per speaker = 35 minute talk + 10 minute discussion

7:30-8:15 TSRC Catered Breakfast at the meeting site

8:15-8:30 Welcome and opening remarks

8:30- 9:15 Anne McCoy, “Photoexcitation and photodissociation dynamics of ICN-”

9:15-10:00 Gary Douberly, “The formation and spectroscopy of open-shell complexes in helium nanodroplets”

10:00-11:45 Matthias Weber, “Vibrational activation of electron emission and transfer”

10:45-11:00 Break

11:15-12:00 Richard Dawes, TBA

12:00-12:45 Paul Dagdigian, “The Dynamics of the Collisional Quenching of OH(A 2+) by Krypton”

**Monday evening, July 9** (session chair: Gary Douberly)

7:00-7:45 Greg Hall, “Polarized saturation recovery dynamics in CN(X):What the hell is a dephasing collision, anyway?”

7:45-8:30 Ned Sibert, “Vibronic Spectroscopy of Methoxy”

**Tuesday afternoon, July 10** (session chair: Scott Reid)

1:30-2:15 John Stanton, “Semiclassical Transition State Theory and Tunneling in HOCO”

2:15-3:00 Bob Continetti, “Studies of the dissociation dynamics of transient species using coincidence techniques, fast beams and ion traps”

3:00-3:45 Curt Wittig, “Geometric phase from a complementary perspective”

3:45-4:15 Break

4:15-5:00 Tim Schmidt, “The Phenalenyl Radical: A Jahn-Teller-Herzberg-Teller D3h PAH”

5:00-5:45 Amy Mullin, TBA

6:00 - 7:15 Town Talk at the Palm Theatre

**Automobiles: Racing to the future**, by Brad Jaeger, VP of Engineering and Operations, Edison2, X-Prize Winners

**Electric Cars: The good, the bad, and the misleading**, by David Brown, Chief Operating Officer, Edison2, X-Prize Winners

**Wednesday afternoon, July 11** (Session Chair: Mike Heaven)

1:00-1:45 Terry Miller, “Recent experimental investigations of degenerate and near degenerate electronic states”

1:45-2:30 Spiridoula Matsika, “Theoretical developments for studying excited states and their potential energy surfaces”

2:30-3:15 Henning Meyer, “The A-state dissociation continuum of complexes NO-X and their near IR spectrum: A new perspective”

3:15-3:45 Break

3:45-4:30 Ken McKendrick, “Multi-surface effects in the reaction O(3P) + D2 🡪 OD + D”

4:30-5:15 Joe Francisco, TBA

**Wednesday evening, July 11** (Session Chair: Ryan Steele)

7:00-7:45 Mike Heaven, TBA

7:45-8:30 Millard Alexander, TBA

**Thursday afternoon, July 12** (Session Chair: Richard Dawes)

1:00-1:45 Jingsong Zhang, “Non-adiabatic dynamics in photodissociation of open-shell species”

1:45-2:30 Ryan Steele, “Hole migration in oxidized water”

2:30-3:00 Break

3:00-3:45 Grant Ritchie, “Coherent spectroscopy with quantum cascade lasers”

3:45-4:30 Andrew Orr-Ewing, “Non-adiabatic dynamics in the Cl + CH4 🡨🡪 HCl + CH3 reaction”

4:30-5:15 Mitchio Okumura, TBA

6:00 - Picnic/barbeque, family members and other TSRC guests welcome free of charge

**Friday morning, July 13** (Session Chair Anne McCoy)

7:30-8:15 TSRC Catered Breakfast at the meeting site

8:30-9:15 Anna Krylov, TBA

9:15-10:00 Tim Steimle, “Life at the Bottom of the Periodic Table: studies of Ir, Pt, and Au containing molecules”

10:00-10:30 Break

10:30-11:15 Trevor Sears, “Unusual photolysis in S1 phenylacetate”

11:15-12:00 Scott Reid, “Towards a global picture of spin-orbit coupling in the halocarbenes”