Midwest Astrochemistry Meeting 2009

Schedule

Friday, 6 November 2008

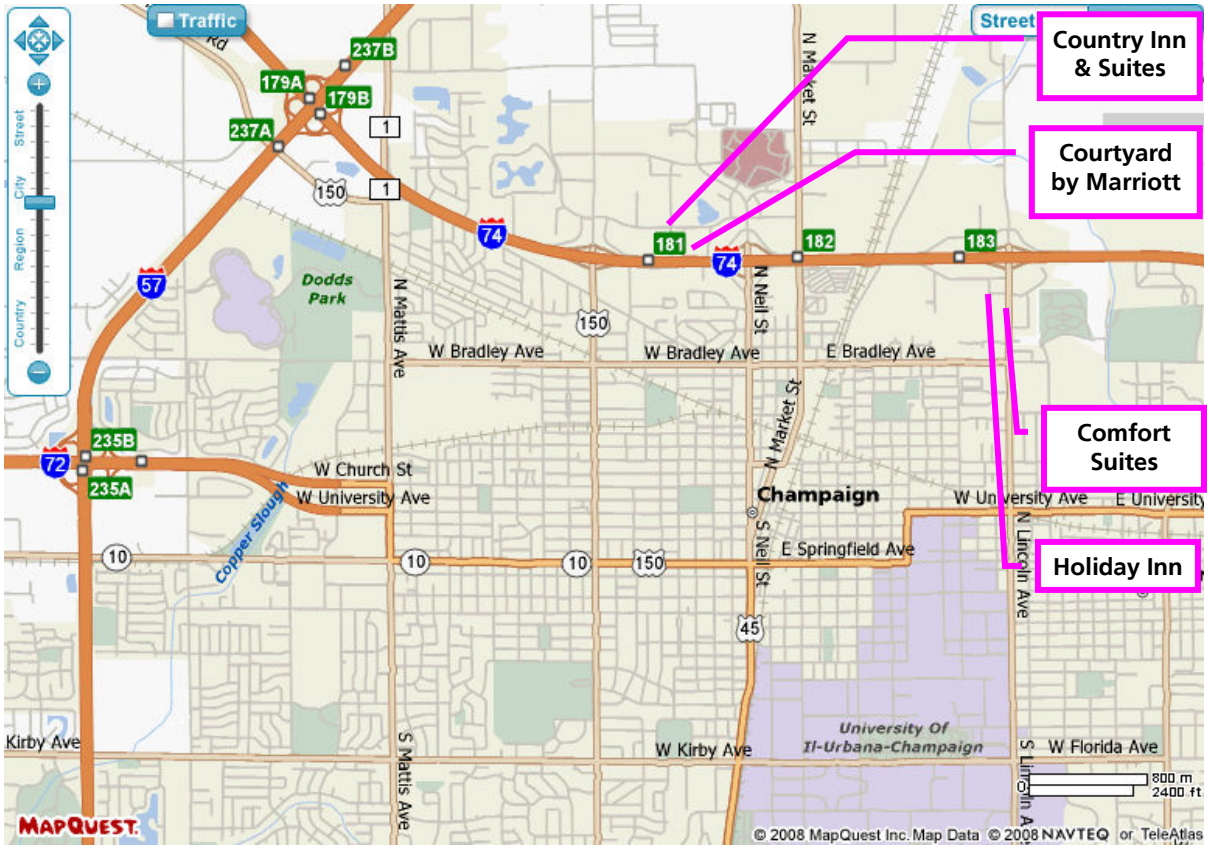
The poster session will be held in the lobby of the National Center for Supercomputing Applications (NCSA) building at the north end of the UIUC campus. The registration table will open at 5 PM, at which time posters can be hung. Pizza and beverages will be available starting around 6 PM. The poster session will begin whenever people are ready to begin!

Saturday, 7 November 2008

The oral sessions will be held in room 116 of Roger Adams Laboratory on the east side of the central part of the UIUC campus. The building's northeast door will be unlocked by 8 AM. The first session will begin at 8:45 AM. There will be a mid-morning break with coffee and snacks, and lunch will be provided in the form of box lunches. The meeting is scheduled to adjourn at 2:30 PM.

(see next two pages for maps)

MWAM09 – Area Map



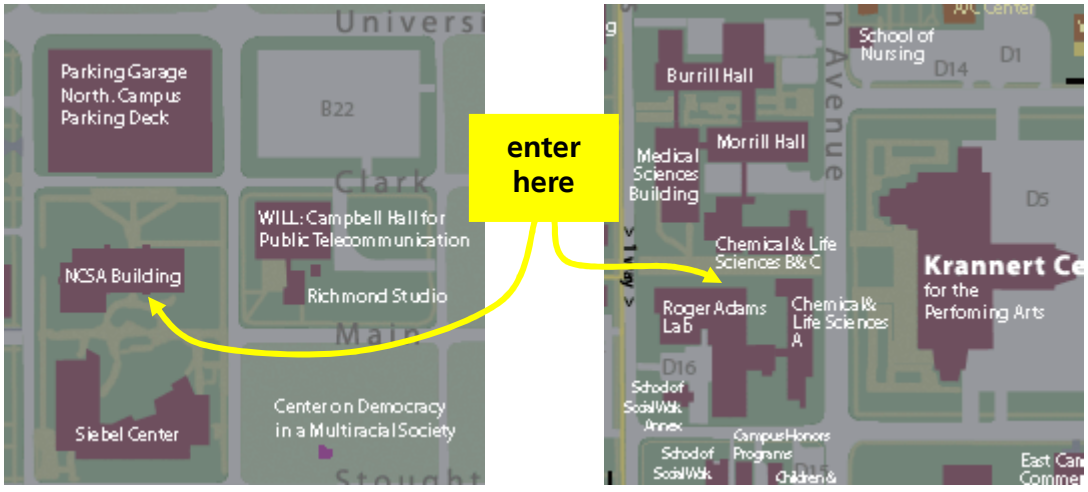
The quickest access to campus is to use exit 183 from I74 to Lincoln Ave.

To reach the NCSA building, drive south on Lincoln to University Ave. Turn right (west) on University, then left (south) onto Goodwin. You may park in the parking garage on the right (B4) and or Lot B22 on the left.

To reach Roger Adams Laboratory, take Lincoln south to Illinois St. Turn right (west) onto Illinois St. You may park in the Krannert Center garage (D5) or in Lot D1 at the northeast corner of Goodwin and Illinois. <u>Be warned that there is construction on Goodwin from Springfield south to Gregory.</u>

PARKING: Unless the sign for the lot says otherwise, campus lots are open to public parking after 4 PM and on the weekend. Don't park at a meter.

MWAM09 – Campus Maps



download full UIUC campus maps from http://illinois.edu/ricker/CampusMap

Version of 4 November 2009

Poster Session – 6 November 2009

P01 **Mid-Infrared Continuous Wave Cavity Ringdown Spectrometer for Acquisition of the High-Resolution Spectrum of C_{60}**
B. E. Brumfield, J. Stewart, and B. J. McCall

P02 **Studies on the Bergman Cyclization and Cyclobutadienes**
J. L. Menke, A. M. Nolan, K. Windsor, B. J. Esselman, and R. J. McMahon

P03 **Thermal Processing of CO_2 Ice Around Massive Young Stellar Objects in the LMC**
J. P. Seale, L. W. Looney, R. Chen, Y.-H. Chu, and R. A. Gruendl

P04 **Synthesis and Spectroscopy of Highly-Unsaturated Carbon Chain Molecules: Species of Relevance to the Interstellar Medium**
C. J. Shaffer, N. J. Burrmann, and R. J. McMahon

P05 **Ultraviolet Transitions in C_2**
Y. Sheffer, R. Hupe, and S. R. Federman

P06 **The Performance of a Continuous Supersonic Expansion Discharge Source**
C. A. Kauffman, K. N. Crabtree, and B. J. McCall

P07 **DIBSyRCH: The Diffuse Interstellar Band Synchrotron Radiation Carrier Hunt: Naphthalene Clusters**
M. H. Stockett, M. P. Wood, and J. E. Lawler

P08 **Chemistry in the Molecular Disks of Active Galactic Nuclei**
N. Harada and E. Herbst

P09 **The Effect of YSO Environment and Evolutionary Status on Volatile Composition in the Rho Ophiuchi Region**
K. A. Wojtkowski, E. L. Gibb, and S. S. Shenoy

P10 **A Hybrid Approach of Rate Equations and Moment Equations to Treat Gas-Grain Chemistry for Large Reaction Networks**
Y. Pei and E. Herbst

P11 **Probing Massive Protocluster-forming Cores around IRAS 05345+3157**
K. I. Lee, L. W. Looney, R. Klein, and S. Wang

P12 **Millimeter-wave Rotational Spectroscopy of Pyridine (C_5H_5N), Pyridazine ($C_4H_4N_2$), and Their Discharge Products with Efforts toward Phenyl Radical (C_6H_5), *ortho*-Benzyne (*o*-C_6H_4), Protonated Benzene ($C_6H_7^+$)**
B. J. Esselman, B. K. Amberger, M. A. Daane, R. C. Woods, and R. J. McMahon

P13 **Properties and Structural Isomers of Hydronaphthyl Resonance-Stabilized Radicals and Their Role in the Formation of PAHs in Titan's Atmosphere**
J. A. Sebree and T. S. Zwier

P14 **The Chemical Evolution of Cores within Infrared Dark Clouds**
E. T. Chambers, J. M. Jackson, S. C. Finn, J. M. Rathborne, and R. Simon

P15 **A Unified Monte Carlo Treatment of Gas-Grain Chemistry in Clouds and Disks**
A. I. Vasyunin, R. T. Garrod, D. S. Wiebe, D. A. Semenov, and Th. Henning

P16 **Quantum Chemical Predictions of Dipole Moments and Dipole Polarizabilities for Known and Postulated Astromolecules**
D. E. Woon and E. Herbst

Schedule for Oral Sessions – 7 November 2009

8:45-9:45		**BILL WATSON MEMORIAL SESSION – Chair: Benjamin McCall**
	W01	**Bill Watson's Unusual Career Path to the Beginning of Modern Astrochemistry** L. Snyder
	W02	**Watson and the Polarization of Interstellar Molecular Lines** R. Crutcher
	W03	**Bill Watson – An Appreciation** E. Herbst
9:45-10:15		**BREAK**
		SESSION TWO – Chair: Eric Herbst
10:15-11:00	I01	**INVITED TALK – The Role of Structural Isomers and Resonance-Stabilized Radicals in Photochemical Pathways to Fused-Ring Aromatics in Titan's Atmosphere** *J. A. Sebree and T. S. Zwier*
11:00-11:20	T01	**A Search for Interstellar Urea with CARMA and the IRAM 30 m** *H.-L. Kuo, L. E. Snyder, D. N. Friedel, L. W. Looney, B. J. McCall, A. J. Remijan, F. J. Lovas, and J. M. Hollis*
11:20-11:40	T02	**β-Aminoacrylamide. Ab initio Study of a Fluxional Diamine with Nonlocal Anharmonicities and Extremely-Low-Barrier Double-Wells** *R. Glaser, Y. Liu, W. Wycoff, and S. Montgomery-Smith*
11:40-12:00	T03	**Quantum Chemical Studies of Ice-Bound Reactions of Carbonyl-Containing Species (Formaldehyde, Acetaldehyde, and Acetone) with Ammonia** *L. Chen and D. E. Woon*
12:00-1:10		**LUNCH & MWAC EXECUTIVE SESSION**

SESSION THREE – Chair: David Woon

1:10-1:30	T04	**Long-Range Transition State Theory at Low Temperatures** *Y. Georgievskii and S. J. Klippenstein*
1:30-1:50	T05	**Utilizing N_2H^+ to Probe Protostellar Envelopes: the Case of L1157** *H.-F. Chiang, L. W. Looney, J. J. Tobin, and L. Hartmann*
1:50-2:10	T06	**Simulating Dust in Protoplanetary Disks** *D. A. Tilley, D. S. Balsara, T. Rettig, and S. Brittain*
2:10-2:30	T07	**SCRIBES: Sensitive, Cooled, Resolved Ion BEam Spectroscopy** *H. Kreckel, A. A. Mills, M. Perera, B. M. Siller, K. N. Crabtree, C. A. Kauffman, and B. J. McCall*
2:30		**WRAP-UP – Benjamin McCall**