Dear Colleagues,

Please pass this edition of MIDE on to your groups or people who may find it interesting. New students and post-docs should also e-mail me to add their name to the mailing list if they wish. Please let me know of any news you might have, Ph.D. or M.Sc. defenses, meetings, awards or post-doctoral/graduate student openings in your labs and, of course, recently published papers.

There is a letter from Nigel Young, the chair of the next Matrix Conference on page 2. We really need to increase the attendance at the Gordon Conferences to increase our funding and since we are on probation and an attendance watch.

Finally, good luck as the new semester begins….busy times!

Sincerely Yours,

Travis D. Fridgen

Upcoming Conferences (in order of occurrence)

GASEOUS IONS: STRUCTURES, ENERGETICS & REACTIONS
March 1-6, 2009, Hotel Galvez, Galveston, TX

PHYSICS & CHEMISTRY OF MATRIX ISOLATED SPECIES
July 19-24, 2009, Magdalen College, Oxford, United Kingdom

7th ICLTC, International Conference on Low Temperature Chemistry
24-28 August 2008, Helsinki, Finland
http://www.helsinki.fi/kemia/ICLTC-2008/

News

THESIS DEFENCES (please send details of newly defended theses.)

POSTDOCTORAL POSITIONS (please let me know when positions have been filled so that I can remove the advertisement).

Applications are invited for a 2-year postdoctoral position focused on studies of nanometric magnetic wires using neutron scattering techniques and magnetometry at the LLB (Laboratoire Léon Brillouin, Saclay, France).

A detailed description of the position may be found on the following link:
http://www-llb.cea.fr//postes-llb/

2 positions - Jet Propulsion Laboratory, AMES: Murthy Gudipati
National Institute of Advanced Industrial Science and Technology, Osaka, Japan: Qiang XU

A LETTER FROM DR. NIGEL YOUNG

Dear Colleagues,

Just to let you know the good news that the 2009 Gordon Conference on Matrix Isolation will take place at Magdalen College, Oxford, UK, from July 19th to 24th 2009. We are already thinking about the programme, but would still be pleased to hear your ideas for session topics and/or speakers (other than yourself!).

The not so good news is that due to falling attendance over the past few Gordon conferences, there is less funding available and the Gordon Research Conference office have put the conference on probation and attendance watch. This means that unless we get close to the average of 123 delegates across all Gordon conferences there is a possibility that the conference series will be discontinued both in the US and Europe. If we increase our numbers for this conference, more funds could be released.

Therefore, please put the conference dates in your diary, and try if possible to attend.

I look forward to meeting you and your fellow researchers in Oxford at the end of July 2009.

Nigel Young,
Chair of the 2009 Gordon Conference on Matrix Isolation.
(n.a.young@hull.ac.uk)
Editor’s In-Basket

“If news about YOUR research is missing - it is because YOU did not submit it”

To submit your work please go to http://www.chem.mun.ca/mi/midesubmission.php and submit the digital object identifier (DOI).

EPR spectroscopy of quintet 4-amino-3,5-dichloropyridine-2,6-diyldinitrene isolated in solid argon
Misochko, E ; Akimov, A ; Lavitskii, V ; Chapyshev, S
Russian Chemical Bulletin; 2007; 56(12); 2364-2369.

Coordination of niobium and tantalum oxides by Ar, Xe and O-2: Matrix isolation infrared spectroscopic and theoretical study of NbO2(Ng)2 (Ng = Ar, Xe) and MO4W (M = Nb, Ta; X = Ar, Xe, O-2) in solid argon
Zhao, Y ; Zheng, X ; Zhou, M
Chem. Phys.; 2008; 351(1-3); 13-18.
http://dx.doi.org/10.1016/j.chemphys.2008.03.026

Hydrogen bonding to divalent sulfur
Howard, D ; Kjaergaard, H
http://dx.doi.org/10.1039/b806165c

Infrared spectroscopic and density functional theory studies on the reactions of yttrium and lanthanum atoms with nitrous oxide in excess argon
Jiang, L ; Xu, Q
J. Phys. Chem. A; 2008; 112(28); 6289-6294.
http://dx.doi.org/10.1021/jp802114z

Infrared Spectra of HCC-MH and M−η2-(C2H2) from Reactions of Laser-Ablated Group- 4 Transition-Metal Atoms with Acetylene
J. Phys. Chem. A.; 2008; 112(28); 6295-6304.
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Symmetry-adapted perturbation theory interaction energy decomposition for some noble gas complexes
Cukras, J ; Sadlej, J
http://dx.doi.org/10.1016/j.cplett.2008.05.019

Interaction between O-3 and H2O2: A theoretical study
Makiabadi, B ; Roohi, H
Chem. Phys. Lett.; 2008; 460(1-3); 72-78.
http://dx.doi.org/10.1016/j.cplett.2008.06.020

A theoretical study of the electronic structure of the Co2O2 molecule
Staemmler, V ; Reinhardt, P ; Allouti, F ; Alikhani, M
Chem. Phys.; 2008; 349(1-3); 83-90.
http://dx.doi.org/10.1016/j.chemphys.2008.02.040
Simple N UF3 and P UF3 molecules with triple bonds to uranium
Andrews, L ; Wang, X ; Lindh, R ; Roos, B ; Marsden, C
http://dx.doi.org/10.1002/anie.200801120

Infrared and Raman spectra for amino group and C = O stretching modes in biomolecule 5-aminouracil
Singh, J
Spectrosc. Lett.; 2008; 41(3); 122-127.
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Laser Raman and infra-red spectra of biomolecule: 5-aminouracil
Singh, J
Pramana-J. Physics; 2008; 70(3); 479-486.
http://dx.doi.org/10.1007/s12043-008-0063-7

Photochemistry of six- and five-membered-ring alpha,beta-unsaturated lactones in cryogenic matrices
Fausto, R ; Breda, S ; Kus, N
http://dx.doi.org/10.1002/poc.1343

Theoretical studies on the infrared spectrum of the tetrahedral molecules R2MH2 (R = D(H), CH3, OH; M = Ti, Zr, Hf)
Liu, G ; Zhao, Y
Structural Chemistry; 2008; 19(2); 247-256.
http://dx.doi.org/10.1007/s11224-007-9279-2

Hess, K ; Samet, C
Spectrosc. Lett.; 2008; 41(4); 179-188.
http://dx.doi.org/10.1080/00387010802132409

Conformations of dimethylhydrogen phosphonate (DMHP): A matrix isolation infrared and ab initio study
Sundararajan, K ; Sankaran, K
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Castano, J ; Fantoni, A ; Romano, R
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Tobon, Y ; Di Loreto, H ; Della Vedova, C ; Romano, R
J. Mol. Struct.; 2008; 881(1-3); 139-145.
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Hoops, M. D.; Ault, B. S.
J. Phys. Chem. A.; 2008; 112(24); 5368-5377.
http://dx.doi.org/10.1021/jp800796k

Infrared Matrix Isolation Study of the Thermal and Photochemical Reactions of Ozone with Dimethylzinc
Varma, P.; Ault, B. S.
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Amplified emission of phthalocyanine isolated in cryogenic matrices
Nadia Dozova, Ciaran Murray, John G. McCaffrey, Niloufar Shafizadeh and Claudine Crépin
http://dx.doi.org/10.1039/b718418b

Matrix Isolation Infrared Spectroscopic and Density Functional Theory Study of the 1:1 Complexes of Bromocyclohexane with NH₃: Evidence for a Weak C-H---N Hydrogen Bond
Kyle R. Hess and Cindy Samet
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Hinde, RJ
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Gong, Y.; Zhou, M.
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Olbert-Majkut, A.; Wierzejewska, M.
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Matrix-isolation FT-IR and theoretical investigation of the competitive intramolecular hydrogen bonding in 5-methyl-3-nitro-2-hydroxyacetophenone
Pajak, J ; Maes, G ; De Borggraeve, W ; Boens, N ; Filarowski, A
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Bates, S ; Ritby, C ; Graham, W
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Rooms, J; Wilson, A; Harvey, I; Bridgeman, A; Young, N
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A laser ash photolysis, matrix isolation, and DFT investigation of (eta(6)-C6H5Y)Cr(CO)(3) (Y = NH2, OCH3, H, CHO, or CO2CH3)
Alamiry, M; Brennan, P; Long, C; Pryce, M
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Teng, Y; Xu, Q
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