Dear Colleagues,

Please pass this on to your groups or people who may find it interesting. New students should also e-mail me to add their name to the mailing list if they wish. Please inform me of any news, Ph.D. or M.Sc. defenses, meetings, awards or post-doctoral/graduate student openings in your labs, or recently published papers. There is a special request that you can see below from Ermelinda Maçôas for anyone who might have a spare parts Nicolet 740.

Sincerely Yours,

Travis D. Fridgen

Upcoming Conferences (in order of occurrence)

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

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
REQUEST FOR HELP: Nicolet 740.

Dear colleagues,

We have in our lab a Nicolet 740 in need for help. This is a very old FTIR spectrometer, and the manufacturer is not available anymore to service the equipment or provide replacement parts. We are very kin on this equipment and we are not ready to let it go yet. We are interested in any parts you might have for the Nicolet 740. In particular, we need a mid-IR source, a KBr beamsplitter and a motorized iris. Any information on how to get parts for this machine is greatly welcomed. If you know of anybody that is still running this equipment or that was running it in the past, please, pass the message. You can contact me by email at emacoas@qui.uc.pt.

Thank you for your help

Ermelinda Maçôas

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 and IR spectra of the FSO3 radical revisited: Strong vibronic interactions in the 2A2 electronic ground state”
H. Beckers,1 H. Willner,1 D. Grote,2 and W. Sander2
DOI: http://dx.doi.org/10.1063/1.2831511

“Matrix Isolation, Spectroscopic Characterization, and Photoisomerization of m-Xylylene”
Neuhaus, P.; Grote, D.; Sander, W.
J. Am. Chem. Soc.; 2008; 130(10); 2993-3000.
DOI: http://dx.doi.org/10.1021/ja073453d

“Electronic structure of oxide, peroxide, and superoxide clusters of the 3d elements: A comparative density functional study”
Ellie L. Uzunova Hans Mikosch and Georgi St. Nikolov
DOI: http://dx.doi.org/10.1063/1.2831583

“Photoinduced transformation of matrix-isolated methyl 2-pyrone-3-carboxylate into methyl 2-pyrone-5-carboxylate via intramolecular hydrogen shift in open-ring aldehyde–ketene”
Igor Reva, Maciej J. Nowak, Leszek Lapinski, and Rui Fausto
DOI: http://dx.doi.org/10.1016/j.cplett.2007.12.027
“Ab initio and matrix isolation study of the acetylene–furan dimer”
Elsa Sánchez-García, Artur Mardyukova, Adem Tekinb, Rachel Crespo-Oteroc, Luis A. Monteroc, Wolfram Sandera, and Georg Janse
Chem. Phys.; 2008; 343(2-3); 168-185.
DOI: http://dx.doi.org/10.1016/j.chemphys.2007.09.053

“A matrix isolation study on Ac–l-Pro–NH2: a frequent structural element of β- and γ-turns of peptides and proteins”
Gábor Pohla, András Perczela, b, Elemér Vassc, Gábor Magyarfalvid and György Tarczay
Tetrahedron; 2008; 64(9); 2126-2133.
DOI: http://dx.doi.org/10.1016/j.tet.2007.12.037

“Structure, spectra and stability of a tetrafluoromethane–water complex”
Krzysztof Mierzwicki, Zofia Mielke, Magdalena Sałdyka, Stephane Coussan and Pascale Roubin
DOI: http://dx.doi.org/10.1039/b714145a

“Conformational Space of the Pseudosaccharin Allyl Ether 3-(Allyloxy)-1,2-benzisothiazole 1,1-Dioxide in Gas Phase and in Rare Gas Matrices”
Gomez-Zavaglia, A.; Kaczor, A.; Almeida, R.; Cristiano, M. d. L. S.; Fausto, R.
J. Phys. Chem. A.; 2008; 112(8); 1762-1772.
DOI: http://dx.doi.org/10.1021/jp0770918

“Bonding Rearrangements of Hydrogen-Bonded Complexes Involving Alkynes”
Kryachko, E. S.; Scheiner, S.
J. Phys. Chem. A.; 2008; 112(9); 1940-1945.
DOI: http://dx.doi.org/10.1021/jp076795e

“Probing the intermediates in the MO + CH4 ↔ M + CH3OH reactions by matrix isolation infrared spectroscopy”
Authors: Guanjun Wang a; Mingfei Zhou
International Reviews in Physical Chemistry; 27(1); 1 – 25.
DOI: http://dx.doi.org/10.1080/01442350701685946

“Radiation chemistry of H2O + O2 ices”
Paul D. Coopera, Marla H. Moorea and Reggie L. Hudson
Icarus; 2008; 194; 379.
DOI: http://dx.doi.org/10.1016/j.icarus.2007.10.002

“Formation of Nitrogen and Hydrogen-bearing Molecules in Solid Ammonia and Implications for Solar System and Interstellar Ices”
Weijun Zheng, David Jewitt, Yoshihiro Osamura, Ralf I. Kaiser
DOI: http://dx.doi.org/10.1086/523783
“Matrix Isolation Infrared Observation of H$_x$Si(N$_2$)$_y$ (x = 0, 1, 2 and y = 1, 2) Transient Species Using a 121-nm Vacuum Ultraviolet Photolysis Source”
Amicangelo, J. C.; Dine, C. T.; Irwin, D. G.; Lee, C. J.; Romano, N. C.; Saxton, N. L.
J. Phys. Chem. A.; 2008; 112(14); 3020-3030.
DOI: http://dx.doi.org/10.1021/jp076466m

“Interplay between theory and experiment in investigations of molecules embedded in superfluid helium nanodroplets”
Krzysztof Szalewicz
DOI: http://dx.doi.org/10.1080/01442350801933485

“Reactions of Thorium Atoms with Polyhalomethanes: Infrared Spectra of the CH$_2$=ThX$_2$, HC÷ThX$_3$, and XC÷ThX$_3$ Molecules”
Jonathan T. Lyon, Lester Andrews
DOI: http://dx.doi.org/10.1002/ ejic.200701048
Cover Picture: (http://www3.interscience.wiley.com/cgi-bin/fulltext/117914785/PDFSTART)

“Infrared spectra of (HCOOH)$_2$ and (DCOOH)$_2$ in rare gas matrices: A comparative study with gas phase spectra”
F. Ito
DOI: http://dx.doi.org/10.1063/1.2841078

“Nuclear spin conversion of methane in solid parahydrogen”
Yuki Miyamoto, Mizuho Fushitani, Daisuke Ando, and Takamasa Momose
DOI: http://dx.doi.org/10.1063/1.2889002

“Time evolution of the v2 IR absorption of (o-H$_2$)$_n$:H$_2$O clusters (n = 11–1), and increase of H$_2$O rotation, in O$_2$ doped solid hydrogen at 4.2 K”
L. Abouaf-Marguin, A.-M. Vasserot, C. Pardanaud, J. Stienlet and X. Michaut
Chem. Phys. Lett.; 2008; 454(1-3); 61-64.
DOI : http://dx.doi.org/10.1016/j.cplett.2008.01.081

“A site-selective spectroscopy of naphthalene and quinoline in TEOS/MTEOS xerogels”
C. Crépin, V. Dubois, F. Goldfarb, F. Chaput and J. P. Boilot
DOI: http://dx.doi.org/10.1039/b500578g

“Environment effect on the vibrational dephasing of HCl, and HCl containing complexes, probed in van der Waals solids”
M. Broquier, B. Lebech and C. Crépin
Chem. Phys. Chem.; 2005; 416(1-3); 121-127.
DOI: http://dx.doi.org/10.1016/j.cplett.2005.09.042
“Influence of complexation and solid environment on the vibrational coherence of DCl”
M. Broquier1, C. Crépin1, A. Cuisset, H. Dubost, and J. P. Galaup
DOI: http://dx.doi.org/10.1140/epjd/e2005-00246-x

“IR spectra and vibrational dephasing of the CO stretching mode in W(CO)6 doped cryogenic matrices”
M. Broquier, C. Crépin, H. Dubost, and J.-P. Galaup
Chem. Phys.; 2007; 341(1-3); 207-217.
DOI: http://dx.doi.org/10.1016/j.chemphys.2007.06.030

“Influence of a Weak Hydrogen Bond on Vibrational Coherence Probed by Photon Echoes in DCl Dimer Trapped in Solid Nitrogen”
M. Broquier, C. Crépin, A. Cuisset, H. Dubost, and J. P. Galaup
DOI: http://dx.doi.org/10.1021/jp0509921

See Next page for titles from the special issue of Fizika Nizkich Temperatur, “To the centenary of liquid helium discovery”
To the centenary of liquid helium discovery
Guest editor E.Ya. Rudavskii

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