

Friday, October 8th, 2010

Matrix Isolation Digest by Electronic Mail

A free electronic publication sent out on behalf of the
international matrix isolation community.

Dear Colleagues,

It has been about a year and a half since the last edition of MIDE, and I apologize for that. I found that it was extremely time consuming doing searches for the “editor’s in basket”. While I think it is still important to keep in touch, I am eliminating the “editor’s in basket.” If, however, you have published a nice review article, book chapter, or book, or have other news that you wish to share with the community please send it along and I will collate this into a MIDE issue. I will also endeavour to keep the website up to date.

Please send me the e-mail addresses of new students, postdoctoral researchers etc. so I can update the mailing list which comes in very handy for conference announcements and when people need to get in touch with someone or the community as a whole.

Sincerely Yours,



Travis D. Fridgen

Upcoming Conferences (in order of occurrence)

Non-Gordon PHYSICS & CHEMISTRY OF MATRIX ISOLATED SPECIES

University of British Columbia, Vancouver, Canada

July 10th-15th 2011

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).

Postdoctoral Position at the University of Helsinki: Leonid Khriachtchev
3 year position beginning January 1st, 2011
Optical spectroscopy (FTIR, Raman, photoluminescence) in the solid phase
see: <http://www.chem.mun.ca/mi/news.php>

Multiple Postdoctoral positions at University of Hawaii; Professor Ralf Kaiser in experimental physical chemistry (matrix isolation spectroscopy, reaction dynamics, combustion chemistry, astrochemistry, astrobiology). Review of applications begins November 1, 2010
see: <http://www.chem.mun.ca/mi/news.php>

BOOK PUBLISHING

Physics and Chemistry at Low Temperatures
Edited by Leonid Khriachtchev (University of Helsinki, Finland), September 2010, Pan Stanford Publishing. ISBN: 978-981-4267-51-9
Price: US\$ 149.00
Publication Date: September 2010
Pages: 450

The book will be launched globally in October 2010 and for more information, please visit <http://www.panstanford.com/books/physics/v127.html>.

Here's a brief description of the book:

Low temperature is an extreme condition which has always attracted scientists. The reasons for this interest are both fundamental and practical. At such low (cryogenic) temperatures the thermal, electric, and magnetic properties of many substances undergo great change, and the behavior of matter is very different from that at room temperature. Many fundamental discoveries have been done at low temperatures. The development of thermodynamics has been essentially based on potentials of cryogenic technology. Tunneling reactions in chemistry are characterized by the low-temperature limit when the classical contribution is negligible. Many practical applications benefit from the lack of heat and have a deep physical basis. Interesting advantages of chemical synthesis at low temperatures has been demonstrated, etc. Undoubtedly many exciting and useful phenomena will be found at low temperatures in future.

It is impossible to describe all fields of low-temperature research in one book. A small part of the results and perspectives in this area is considered in Physics and Chemistry at Low Temperatures, which covers fundamental and practical aspects of the processes and

experimental and theoretical methods used in the field. The chapters are written by leading scientists who have very strong experience in the selected topics and many practical recommendations can be found in this book.