

| <b>Program for Winter School on Biomolecular Solid State NMR, January 20-25, 2008</b>   |                                     |  |                                     |
|---|-------------------------------------|--|-------------------------------------|
| <b>Inn at the Mountain, Stowe, Vermont (<a href="http://www.stowe.com/lodging/inn.php">http://www.stowe.com/lodging/inn.php</a>)</b>  |                                     |  |                                     |
| Notes: (1) Problem solving sessions are scheduled during "free time" on Tuesday-Thursday. These sessions will be supervised by whomever distributed problems during lectures on the previous day. (2) "Advanced topics in solid state NMR" sessions are intended to give the lecturers an opportunity to discuss whatever they think is most important, including NMR techniques, sample preparations, hardware, etc. |                                     |  |                                     |
| day/time  | lecturer or event                   | topic  | location                            |
| <b>Sunday, January 20</b>   |                                     |  |                                     |
| 2:00 pm-9:00 pm   | registration                        |  |                                     |
| 7:00 pm-8:30 pm   | reception/dinner                    |  | H.H. Bingham Room                   |
| 8:30 pm-9:30 pm   | <b>Bob Griffin/Rob Tycko</b>        | Thoughts on biomolecular solid state NMR: Why this Winter School?                    | Mt. Mansfield Room                  |
| <b>Monday, January 21</b>   |                                     |  |                                     |
| 7:00 am-8:00 am   | breakfast                           |  | Mt. Mansfield Room                  |
| 8:00 am-9:30 am   | <b>Rob Tycko</b>                    | basics of solid state NMR theory, homonuclear recoupling                             | Mt. Mansfield Room                  |
| 9:30 am-10:00 am  | coffee break                        |  | Mt. Mansfield Room                  |
| 10:00 am-11:30 pm   | <b>Chris Jaroniec</b>               | heteronuclear recoupling and decoupling  | Mt. Mansfield Room                  |
| 11:30 am-5:00 pm  | free time                           |  |                                     |
| 5:00 pm-6:30 pm   | <b>Kurt Zilm</b>                    | solid state NMR hardware, theory and practice of heteronuclear polarization transfer | Mt. Mansfield Room                  |
| 6:30 pm-7:30 pm   | buffet dinner                       |  | H.H. Bingham Room                   |
| 7:30 pm-9:00 pm   | <b>Stan Opella</b>                  | theory and implementation of techniques for oriented systems, part 1                 | Mt. Mansfield Room                  |
| 9:00 pm-10:30 pm  | poster viewing, socializing         |  | H.H. Bingham Room, fireplace lounge |
| <b>Tuesday, January 22</b>  |                                     |  |                                     |
| 7:00 am-8:00 am   | breakfast                           |  | Mt. Mansfield Room                  |
| 8:00 am-9:30 am   | <b>Mei Hong</b>                     | theory and techniques for studies of molecular dynamics                              | Mt. Mansfield Room                  |
| 9:30 am-10:00 am  | coffee break                        |  | Mt. Mansfield Room                  |
| 10:00 am-11:30 am   | <b>Bob Griffin</b>                  | dynamic nuclear polarization, theory and practice                                    | Mt. Mansfield Room                  |
| 11:30 am-5:00 pm  | free time, problem solving sessions |  |                                     |
| 5:00 pm-6:30 pm   | <b>Chad Rienstra</b>                | CSA measurements, optimization of multidimensional solid state NMR                   | Mt. Mansfield Room                  |
| 6:30 pm-7:30 pm   | buffet dinner                       |  | H.H. Bingham Room                   |
| 7:30 pm-9:00 pm   | <b>Michelle Auger</b>               | NMR of phospholipids and membrane-bound systems                                      | Mt. Mansfield Room                  |
| 9:00 pm-10:30 pm  | poster viewing, socializing         |  | H.H. Bingham Room, fireplace lounge |

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| <b>Wednesday, January 23</b> |  |  |                                     |
| 7:00 am-8:00 am              | breakfast  |  | Mt. Mansfield Room                  |
| 8:00 am-9:30 am              | <b>Ann McDermott</b>   | Structure and dynamics of crystalline proteins and enzymes           | Mt. Mansfield Room                  |
| 9:30 am-10:00 am             | coffee break   |  | Mt. Mansfield Room                  |
| 10:00 am-11:30 am            | <b>Tatyana Polenova</b>  | NMR of metal atoms   | Mt. Mansfield Room                  |
| 11:30 am-5:00 pm             | free time, workshop on <i>ab initio</i> calculation of NMR parameters (Tatyana Polenova) |  |                                     |
| 5:00 pm-6:30 pm              | <b>Mikhail Veshtort</b>  | pulse sequence simulations with SPINEVOLUTION                        | Mt. Mansfield Room                  |
| 6:30 pm-7:30 pm              | buffet dinner  |  | H.H. Bingham Room                   |
| 7:30 pm-9:00 pm              | <b>Yoshitaka Ishii</b>   | NMR of paramagnetic solids   | Mt. Mansfield Room                  |
| 9:00 pm-10:30 pm             | poster viewing, socializing  |  | H.H. Bingham Room, fireplace lounge |
| <b>Thursday, January 24</b>  |  |  |                                     |
| 7:00 am-8:00 am              | breakfast  |  | Mt. Mansfield Room                  |
| 8:00 am-9:30 am              | <b>Tim Cross</b>   | theory and implementation of techniques for oriented systems, part 2 | Mt. Mansfield Room                  |
| 9:30 am-10:00 am             | coffee break   |  | Mt. Mansfield Room                  |
| 10:00 am-11:30 pm            | <b>Mei Hong, Chad Rienstra</b>   | advanced topics in solid state NMR                                   | Mt. Mansfield Room                  |
| 11:30 am-5:00 pm             | free time, workshop on SPINEVOLUTION simulations (Mikhail Veshtort)                      |  |                                     |
| 5:00 pm-6:30 pm              | <b>Chris Jaroniec, Yoshitaka Ishii</b>   | advanced topics in solid state NMR                                   | Mt. Mansfield Room                  |
| 6:30 pm-9:30 pm              | <b>Winter School Banquet</b>   |  | to be arranged                      |
| <b>Friday, January 25</b>    |  |  |                                     |
| 7:00 am-8:00 am              | breakfast  |  | Mt. Mansfield Room                  |
| 8:00 am-10:00 am             | <b>Rob Tycko, Ann McDermott, Bob Griffin</b>   | advanced topics in solid state NMR                                   | Mt. Mansfield Room                  |
| 10:00 am-10:15 am            | coffee break   |  | Mt. Mansfield Room                  |
| 10:15 am-11:30 am            | <b>Tim Cross, Stan Opella</b>  | advanced topics in solid state NMR                                   | Mt. Mansfield Room                  |
| 11:30 am-11:45 am            | <b>Bob Griffin, Rob Tycko</b>  | closing remarks  | Mt. Mansfield Room                  |