

## Agenda

|       |  |  |                       |
|-------|--|--|-----------------------|
| 8:00  | Registration                           |  | Chair                 |
| 8:20  | Welcome:<br>Herbert Winful             |  |                       |
|       | <b>SESSION I: The Michigan Origins</b> |  | <b>John Ward</b>      |
| 8:40  | Gabriel Weinreich                      | Being First  |                       |
| 9:00  | Alan Hill                              | Memories of the discovery of optical harmonics and of Peter Franken          |                       |
| 9:20  | Mike Bass                              | Thinking Big: Working with Peter Franken                                     |                       |
| 9:40  | Paul Maker and Robert Terhune          | A review of the nonlinear optics program at the Ford Motor Company           |                       |
| 10:00 | <b>Coffee Break</b>                    |  |                       |
|       | <b>SESSION II: The Field Develops</b>  |  | <b>Herbert Winful</b> |
| 10:20 | Nicolaas Bloembergen                   | Nonlinear optics from 1960 to 1962   |                       |
| 10:40 | Joe Giordmaine                         | The magic angle: from harmonic generation to phase matching                  |                       |
| 11:00 | Elsa Garmire                           | The Charles Townes legacy in nonlinear optics                                |                       |
| 11:20 | <b>POSTER SESSION</b>                  |  |                       |
| 11:40 | <b>POSTER SESSION</b>                  |  |                       |
| 12:00 | <b>Lunch...poster session</b>          |  |                       |
| 12:20 | <b>Lunch...poster session</b>          |  |                       |
| 12:40 | <b>Lunch...poster session</b>          |  |                       |
|       | <b>SESSION III: Applications</b>       |  | <b>Steve Cundiff</b>  |
| 1:00  | Marty Fejer                            | Fifty years of quasi-phase matching  |                       |
| 1:20  | Mohammed Islam                         | All-fiber-integrated, modulation instability-initiated supercontinuum lasers |                       |
| 1:40  | Sunney Xie                             | Stimulated Raman Scattering Microscopy                                       |                       |
| 2:00  | <b>Break</b>                           |  |                       |

|      | SESSION IV: The Future           |   | Roberto Merlin |
|------|----------------------------------|---|----------------|
| 2:20 | Margaret Murnane                 | Nonlinear optics at the timescale of the electron                                 |                |
| 2:40 | Phil Bucksbaum                   | Nonlinear laser-matter interactions at SLAC's hard x-ray free electron laser LCLS |                |
| 3:00 | Alex Gaeta                       | Extreme nonlinear photonics with ultralow powers                                  |                |
| 3:20 | Tal Carmon                       | Brillouin cooling   |                |
| 3:40 | Coffee Reception                 |   |                |
|      |                                  |   |                |
| 4:15 | Gerard Mourou: Ta You Wu Lecture | Laser based high-energy physics   |                |
| 5:00 |                                  |   |                |
| 6:30 | Cocktail Reception               |   |                |
| 7:00 | Banquet                          |   |                |