

## PROGRAM

### Thursday, March 29, 2018

**7:30pm - 9:30 pm Welcome Reception** --- i Hotel

### Friday, March 30, 2018 141 Loomis Lab

**9:00 am - 10:30 am Session 1: Celebrating Tony's impact in Urbana**, 141 Loomis

9:00 am Welcome session

9:30 am Theory impact

10:00 am Experiment impact

10:30 am - 11:00 am Break Lobby Loomis Lab

**11:00 am - 12:30 pm Session 2: Superfluids** 141 Loomis

11:00 am David Mermin (Cornell) "My Life with Leggett"

11:30 am Jim Sauls (Northwestern) "Spontaneously Broken Spin-Orbit Symmetry - A View in 2018"

12:00 noon J. Eisenstein (Caltech) "An Almost-Superfluid"

12:30 pm - 1:30 pm Lunch, Loomis Lobby

**1:30 pm - 3:00 pm Session 3: Superconductivity** 141 Loomis

1:30 pm Mike Norman (Argonne) "What's Up with the Cuprates?"

2:00 pm Dirk van der Marel (Geneva) "Coulomb Interaction and the MIR Scenario in high T<sub>c</sub> Superconductors"

2:30 pm Nandini Trivedi (Ohio State) "Broken Paradigms"

3:00 pm - 3:30 pm Break Loomis Lobby

**3:30 pm - 5:00 pm Session 4: Macroscopic Quantum Phenomena** 141 Loomis

3:30 pm Irfan Siddiqi (Berkeley) "The Dawn of Superconducting Quantum Processors"

4:00 pm Andrew Briggs (Oxford) "Is Reality There When Nobody Looks?"

4:30 pm Ray Laflamme (Waterloo) "Tony Leggett's Global Impact in Canada"

5:00 pm - 6:00 pm Transportation to i Hotel and Break

6:00 pm - 7:00 pm Buffet Dinner --- i Hotel

**Evening program** --- i Hotel

**7:30 pm - 8:30 pm Public Performance** Smitha Vishveshwara/Latrelle Bright (Illinois)

**8:30 pm - 9:30 pm Public Lecture** Matthew Fisher (UC Santa Barbara) "Are We Quantum Computers, or Merely Clever Robots?"

**9:30 pm - 10:30 pm Public Reception**

## PROGRAM

**Saturday, March 31, 2018** 141 Loomis

**9:00 am - 10:30 am Session 5: Glasses and Fluids** 141 Loomis

9:00 am Peter Wolynes (Rice)

9:30 am Christian Enss (Heidelberg) “Breakdown of the Universality of Glasses at Ultralow Temperatures – Interplay of Nuclear Spins and Atomic Tunneling Systems”

10:00 am Clare Yu (Irvine) “Low Temperature Properties of Glasses: Beyond Two Level Systems”

**10:30am - 11:00 am Break**

**11:00 am - 12:30 pm Session 6: More Quantum Physics** 141 Loomis

11:00 am John W. Clark (Washington University) Superfluid States of Nuclear Matter

11:30 am Daniel Loss (Basel)

12:00 noon Phil Stamp (UBC) “Quantum Gravity in the Lab”

**12:30 pm - 1:30 pm Lunch**

**1:30 pm - 3:00 pm Session 7: Global Impact** 141 Loomis

1:30 pm Yoshi Maeno (Kyoto) “Leggett’s Tree”

2:00 pm Ying Liu (Penn State, Shanghai)

2:30 pm Laura Greene (NHMFL/Florida State) “Tony’s Advocacy in Science Diplomacy and Human Rights: Impact and Global Guidance”

**3:00 pm - 3:30 pm Break**

**3:30 pm - 5:00 pm Session 8: Societal Issues** 141 Loomis

3:30 pm Ping Ao (Shanghai University) “Dynamics: From Macroscopic Quantum Phenomena, to Motion of Topological Defects, Genesis and Progression of Cancer, and Framework for Nonequilibrium Processes”

4:00 pm Rongjie Tao (Temple) “From Sustainable Energy to Preventing Heart Attacks and Strokes: Challenges for Soft Matter Physics”

4:30 pm George Crabtree (Argonne) “Critical Current by Design”

**5:00-5:30 pm Summary** Philip Phillips (Illinois) “Unsolved Problems”

**5:30-6:30pm Transportation to I-Hotel and Break**

**6:30 – 7:30pm Reception --- i Hotel**

**7:30 – 10pm Banquet --- i Hotel**