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 Jim 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_c 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 Theatrical Performance "Quantum Voyages"
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) "Homo vitro fragilior"

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 Nigel Goldenfeld (Illinois) "Is there universality in biology"

11:30 am Daniel Loss (Basel) "Majorana Fermions in Nanowires: Facts and Fictions"

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) "Learning physics from and working with Tony in the US and China: From 'Foundation of Quantum Mechanics', to phase-sensitive test of pairing symmetry in Sr_2RuO_4, to 'Basic Aspects of Superconductivity' and 'Shanghai Center for Complex Physics' "

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

PROGRAM