Overview of Program

Robert Purcell Community Center (RPCC) Auditorium
Appel-Commons (AC) Third Floor Multipurpose Room

Friday 4/18

9:00-12:00  NYSS APS Executive Committee Meeting (AC 302A)
12:00      First shuttle service from T Lot to RPCC
12:00-4:30 Registration and Tour Sign-up (RPCC)
1:00-5:00  Sessions on Superconducting Radiofrequency Science and Technology (RPCC)
4:30-5:30  NYSS AAPT Executive Board Meeting (AC 302C)
5:00       Second shuttle service from T Lot to AC
5:00-6:30  Social hour and cash bar (AC MPR) and Poster Session (AC 302A)
6:30-7:30  Symposium Banquet - tickets required (AC)
7:30-8:00  Keynote Address (AC MPR)
8:40       Last shuttle service from AC to T-Lot

Saturday 4/19

8:30 – 10:30  Registration and Tour Sign-up (AC)
8:30-9:00    Continental Breakfast (AC MPR)
9:00-10:30   First Session on Synchrotron Radiation Science (AC MPR)
10:30       Coffee/tea break
10:45-12:00  Second Session on Synchrotron Radiation Science (RPCC)
12:00-1:00   Lunch – tickets required (AC MPR)
1:00-1:45    Plenary talk on the Standard Model (RPCC)
2:00-3:45    Session on High Energy Physics (RPCC)
2:00-3:45    Physics Workshops for Teachers (AC 302A, B and C)
3:45-4:00    Snacks/Coffee/Tea (AC MPR)
4:15-5:00    Tour of facilities (Wilson and Newman Laboratories)

* Select one of the following tours at the time of registration *
HEP facilities (Wilson Laboratory)
SRF facilities (Newman Laboratory)
CHESS/ERL (Wilson Laboratory)
Detailed Program

Friday 4/18
*Superconducting Radiofrequency Technology*
(Robert Purcell Community Center Auditorium)
Sessions Chair: Robert Pompi, SUNY at Binghamton University

1:00
*Welcoming Remarks*
Rick Galik, Cornell University

1:15 – 1:45
*Superconducting RF Cavities for Particle Accelerators: An Introduction*
Ilan Ben-Zvi, Brookhaven National Laboratory

1:45 – 2:15
*RF Superconductivity*
Jim Sethna, Cornell University

2:15– 3:00
*Past, Present and Future SRF Accelerators Around the World: A Success Story*
Hasan Padamsee, Cornell University

3:00 – 3:30 Coffee/tea break

3:30 – 4:00
*SRF Cavity Preparation and Testing: It’s Cool*
Matthias Liepe, Cornell University

4:00 - 4:20
*Higher Order Mode Damping in SRF Cavities*
Elise Novitski, Yale University

4:20 – 4:40
*The Race for Highest Gradients*
Grigori Eremeev, Cornell University

4:40 – 5:00
*SRF Surface Studies and the High Field Q-slope Mystery*
Alexander Romanenko, Cornell University

7:30 – 8:00
*Science Funding: The Best of Times?*
Persis Drell, Stanford Linear Accelerator Center

Saturday 4/19
*Scientific Advances with Synchrotron Radiation* (Appel Commons Third Floor MPR)
Sessions Chair: Patricia Viele, Cornell University

9:00 – 9:45
*Synchrotron Generated X-rays: Cool Uses for Hot Beams*
Ken Finkelstein, Cornell University

9:45 – 10:30
*Beyond Rocks: Geology and Planetary Sciences with X-rays*
John Parise, SUNY Stony Brook
10:30 – 10:45 Coffee Break - Transition to RPCC Auditorium

10:45 – 11:25 If You Build It, Will It Work? Using X-rays to Study Atom-by-Atom Materials Fabrication
Arthur Woll, Cornell University

11:25 – 12:00 Art and Science Coming Together to Determine the Unique Construction of a Painting by David Teniers the Younger
Noelle Ocon, North Carolina Museum of Art

High Energy Particle Physics (RPCC Auditorium)
Session Chair: Sunil Labroo, SUNY at Oneonta

1:00 – 1:45 The Standard Model
Maxim Perelstein, Cornell University

PARALLEL SESSIONS

2:00 – 3:45 I. HEP continued (RPCC Auditorium)

2:00 - 2:35 Neutrinos
Jim Napolitano, Rensselaer Polytechnic Institute

2:35 - 3:10 Large Hadron Collider: Why Protons?
Kyle Cranmer, New York University

3:10 – 3:45 International Linear Collider: Why Electrons?
Karl Ecklund, University of Buffalo

2:00 – 3:45 II. Teacher Workshops (A-C MPR)

2:00 – 3:00 Attend one of the following workshops:
A. Diffraction Laboratory
   Kevin Dilley, Cornell Center for Materials Research
B. Light Emitting Diodes
   Julie Nucci, Cornell Center for Nanoscale Systems
C. Cloud Chambers and Cosmic Rays
   Lora Hine, Cornell Laboratory for Accelerator-based Sciences

3:00 – 3:45 Opportunities for Teachers and 9-12 students at Cornell University
Deborah Lynn, Ithaca High School
Marty Alderman, Cornell PhysTEC Program
CCMR/CNS (Kevin Dilley and Julie Nucci)

Tours
4:00 – 5:00 Tours of Newman and Wilson Laboratories (optional)