

## **5-8 April 2003 Meeting in Philadelphia, Pennsylvania**

**Saturday, April 5, 2:30 to 5:30 p.m.**

### **Invited Session: Using History in Physics Education**

Commonwealth B, Loews Philadelphia Hotel

Organized by Daniel Siegel, FHP

Cosponsored by the Forum on Education

Session Chair: Daniel Siegel, University of Wisconsin

Stephen Brush, University of Maryland, "Is Physics Scientific?"

David Cassidy, Hofstra University, "Understanding Physics: A Textbook Integrating History into Physics Education"

Robert March, University of Wisconsin, "Bringing Physics to Life Through History and Biography"

Jed Z. Buchwald, California Institute of Technology, "Recreating the Past in the Student Laboratory"

Daniel Siegel, University of Wisconsin, Commentary: "Wrong Physics and Right Teaching"

**Sunday, April 6, 10:45 a.m. to 1:45 p.m.**

### **FHP Contributed Papers Session followed by FHP Business Meeting**

Regency Ballroom C2, Loews Philadelphia Hotel

Session Chair: Hans Frauenfelder, Los Alamos National Laboratory

Ronald E. Mickens, Clark Atlanta University, "Elmer Samuel Imes"

Virginia Trimble, University of Maryland and University of California, Irvine, "Emergence of Cosmic Structure"

Michael A. Day, Lebanon Valley College, "Rabi, Snow and 'The Two Cultures'"

Benjamin Bederson, New York University, "Fritz Reiche and German Refugee Scientists"

Harry Lustig, City University of New York and APS, "Why Did the Germans Not Produce an Atomic Bomb?"

Margaret McMahan and David Clark, Lawrence Berkeley National Laboratory, "Lawrence's Legacy: Seaborg's Cyclotron – The 88-inch Cyclotron Turns 40"

Annual FHP Business Meeting, remainder of session

**Sunday, April 6, 2:00 to 5:00 p.m.**

### **Invited Session: The Development of Electron-Positron Colliders**

Commonwealth B, Loews Philadelphia Hotel

Organized by Elizabeth Paris, FHP, and Ronald Ruth, DPB

Cosponsored by the Division of Physics of Beams

Session Chair: Andrew Sessler, Lawrence Berkeley Laboratory

Elizabeth Paris, Argonne National Laboratory, “The Birth of Lepton Colliders in Italy and the United States”

John Rees, SLAC, “The CEA Bypass Project and SPEAR”

Albert Hofmann, CERN, “Colliders Come of Age in Europe: PETRA and LEP”

Burton Richter, SLAC, “The First Linear Collider”

Andrew Sessler, LBL, “Commentary and Discussion”

**Sunday April 6, 8:00 p.m.**

**APS Public Lecture**

Stearns Auditorium, Franklin Institute

Dudley Herschbach, Harvard University, “Ben Franklin’s Scientific Amusements”

**Monday, April 7, 10:45 a.m. to 1:45 p.m.**

**Invited Session: Benjamin Franklin, Civic Scientist**

Millennium Hall, Loews Philadelphia Hotel

Organized by Michael Riordan, FHP, and Philip W. Hammer, FPS

Cosponsored by the Forum on Physics and Society

Session Chair: Michael Riordan, UC Santa Cruz and Stanford University

Claude-Anne Lopez, Yale University, “At the Dawn of Science”

Dudley Herschbach, Harvard University, “Ben Franklin: A Curiosity-Driven Scientist, a Service-Driven Citizen”

James E. McClellan III, Stevens Institute of Technology, “Franklin: Science, Politics, and France”

Neal Lane, Rice University, “The ‘Founding Father’ of Civic Science”

Philip W. Hammer, Franklin Institute, Commentary and Discussion

**Tuesday, April 8, 8:00 to 11:00 a.m.**

**Invited Session: History of Solar Neutrinos**

Regency Ballroom B, Loews Philadelphia Hotel

Organized by Baha Balantekin and John Wilkerson, DNP

Cosponsored by the Division of Nuclear Physics

Session Chair: Hans Frauenfelder, Los Alamos National Laboratory

Allan Franklin, University of Colorado, “Where Are the Neutrinos? The Early History of the Solar Neutrino Problem”

John Bahcall, Institute for Advanced Study, “History of the Solar Neutrino Problem: A Theoretical Perspective”

Kenneth Lande, University of Pennsylvania, “The Homestake Experiment”

Vladimir Gavrin, Institute for Nuclear Research, Russian Academy of Sciences, “The Gallium Experiments”

Yoji Totsuka, University of Tokyo, “The Kamioka Experiments”