



# Meeting Agenda Overview

November 11 – 13, 2004

Oak Ridge, Tennessee

SESAPS 2004 meeting is hosted by  
Oak Ridge National Laboratory, and sponsored by Oak Ridge Associated Universities  
Coffee and refreshments provided by the following institutions: ORNL Physics Division and Condensed Matter Sciences  
Division, IOP Publishing, RIS Corp., and South Eastern Technical Sales, Inc.

## Thursday Morning, November 11, 2004

### 7:30 a.m.

**Session AA.** [Welcome to Oak Ridge SESAPS 2004.](#)

Registration, coffee& refreshments, Lobby, Pollard Technology Conference Center.

### 8:30 a.m.

**Session BA.** [Spallation Neutron Source Invited Session.](#) *Mason, Crawford, Herwig.* Auditorium, Pollard Technology Conference Center. Chair: Ian Anderson, Oak Ridge National Laboratory.

**Session BB.** [Computational Science.](#) Dogwood, Pollard Technology Conference Center. Chair: Xiaoguang Zhang, Oak Ridge National Laboratory.

**Session BC.** [Polymer Science.](#) Iris, Pollard Technology Conference Center.

**Session BD.** [Theoretical Physics I.](#) Mockingbird, Pollard Technology Conference Center. Chair: David J. Dean, Oak Ridge National Laboratory.

### 10:15 a.m.

Break, coffee& refreshments.

### 10:45 a.m.

**Session CA.** [Upgraded and New Research Facilities in the Southeast.](#) *Smith, Howell, Vogelaar.* Auditorium, Pollard Technology Conference Center. Chair: Edward Bilpuch, Duke University and TUNL, Emeritus.

**Session CB.** [Particles and Fields.](#) Dogwood, Pollard Technology Conference Center. Chair: Kenneth F. Read, University of Tennessee at Knoxville.

**Session CC.** [Atomic, Molecular and Optics I.](#) Iris, Pollard Technology Conference Center. Chair: Charles C. Havener, Oak Ridge National Laboratory.

**Session CD.** [Material Science.](#) Mockingbird, Povi8yi8wy

llard Technology Conference Center. Chair: Lynn A. Boatner, Oak Ridge National Laboratory.

## Thursday Afternoon, November 11, 2004

### 2:00 p.m.

**Session DA.** [Astrophysics Invited Session.](#) *Bruenn, Hix, Piekarewicz.* Auditorium, Pollard Technology Conference Center. Chair: Jirina Stone, University of Oxford/Oak Ridge National Laboratory.

**Session DB.** [Magnetism.](#) Dogwood, Pollard Technology Conference Center. Chair: Mark Meisel, University of Florida.

**Session DC.** [Atomic, Molecular and Optics II.](#) Iris, Pollard Technology Conference Center. Chair: Joseph H. Macek, University of Tennessee, Knoxville.

**Session DD.** [Poster Session I.](#) Lobby, Pollard Technology Conference Center.

### 3:20 p.m.

**Session EA.** [Tour of the Spallation Neutron Source.](#)

Four buses will leave the Pollard Technology Conference Center at 3:20, 3:40, 4:00, and 4:20 pm, respectively. **You must show your special badge in order to board the bus.**

After the tour, you will re-board the bus, which will take you to the main campus of ORNL, where the meeting **reception** will be held on Main Street.

Buses will start to return to the Doubletree Hotel at approximately 5:45 pm. **The last bus departing reception site will be**

**6:30 pm.**

## Friday Morning, November 12, 2004

### 8:00 a.m.

Coffee & refreshments.

### 8:30 a.m.

**Session FA.** [Nanoscience Invited Session](#). *Fox, Visscher, Carroll*. Auditorium, Pollard Technology Conference Center. Chair: Martin Guthold, Wake Forest University.

**Session FB.** [Nuclear Physics Invited Session](#). *Smith, Velkovska, Vogelsang*. Dogwood, Pollard Technology Conference Center. Chair: Steffan Bass, Duke University.

**Session FC.** [Solid-State Physics](#). Iris, Pollard Technology Conference Center. Chair: Karen Daniels, Duke University.

### 10:15 a.m.

Break, coffee& refreshments.

### 10:45 a.m.

**Session GA.** [Neutrino Invited Session](#). *Ernst, Stancu, Kneller*. Auditorium, Pollard Technology Conference Center. Chair: Diane Markoff, North Carolina State University and TUNL.

**Session GB.** [Nuclear Structure I](#). Dogwood, Pollard Technology Conference Center. Chair: Robert Varner, Oak Ridge National Laboratory.

**Session GC.** [Nanoscience](#). Iris, Pollard Technology Conference Center. Chair: David B. Geohegan, Oak Ridge National Laboratory.

**Session GD.** [Poster Session II](#). Lobby, Pollard Technology Conference Center.

## Friday Afternoon, November 12, 2004

### 2:00 p.m.

**Session HA.** [Symposium on Magnetism](#). *Meisel, Liu, Dalal, Prozorov*. Auditorium, Pollard Technology Conference Center. Chair: Alan Dorsey, University of Florida.

**Session HB.** [Nuclear Structure II](#). Dogwood, Pollard Technology Conference Center. Chair: Alexander S. Crowell, Duke University and TUNL.

**Session HC.** [Condensed Matter I](#). Iris, Pollard Technology Conference Center. Chair: Victor Breedveld, Georgia Institute of Technology.

**Session HD.** [Neutrinos and Astrophysics](#). Mockingbird, Pollard Technology Conference Center. Chair: Daniel W. Bardayan, Oak Ridge National Laboratory.

### 3:45 p.m.

Break, coffee& refreshments.

### 4:15 p.m.

**Session JA.** [Theoretical Physics II](#). Auditorium, Pollard Technology Conference Center. Chair: Yuriy Mishchenko, North Carolina State University.

**Session JB.** [Nuclear Instrumentation](#). Dogwood, Pollard Technology Conference Center. Chair: John F. Shriner, Tennessee Technical University.

**Session JC.** [Biophysics Focus Session](#). *Shih*. Iris, Pollard Technology Conference Center. Chair: Glenn Edwards, Duke University.

### 5:30 p.m.

Session KA. [SFCAPS D](#). Mockingbird, Pollard Technology Conference Center. Chair: Glenn Edwards, Duke University.

7:30 p.m.

Session LA. [Banquet](#). Ballroom (Oak Ridge B & C), DoubleTree Hotel.

## Saturday Morning, November 13, 2004

### 8:00 a.m.

Coffee & refreshments.

### 8:30 a.m.

Session MA. [Physics Education Invited Session](#). *Foley, Meisner, Saul, Carpenter*. Auditorium, Pollard Technology Conference Center. Chair: William McNairy, Duke University.

Session MB. [Atomic Physics and Optics Invited Session](#). *Gauthier, Havey, Li*. Dogwood, Pollard Technology Conference Center. Chair: Yifu Zhu, Florida International University.

Session MC. [Condensed Matter II](#). Iris, Pollard Technology Conference Center. Chair: Yongying Jin, Oak Ridge National Laboratory.

Session MD. [Biophysics](#). Mockingbird, Pollard Technology Conference Center. Chair: Solon Georghiou, University of Tennessee at Knoxville.

Session ME. [SPS Poster Session](#). Lobby, Pollard Technology Conference Center.

### 10:15 a.m.

Break, coffee & refreshments.

### 10:45 a.m.

Session NA. [Condensed Matter Invited Session](#). *Breedveld, Daniels, Koehler*. Auditorium, Pollard Technology Conference Center. Chair: Eric Weeks, Emory University.

Session NB. [Physics Education](#). Dogwood, Pollard Technology Conference Center. Chair: William McNairy, Duke University.

Session NC. [SPS Contributed Session](#). Iris, Pollard Technology Conference Center. Chair: James E. Parks, University of Tennessee at Knoxville.