

**WINTER NEWSLETTER**  
**OF THE**  
**SOUTHEASTERN SECTION**  
**OF THE**  
**AMERICAN PHYSICAL SOCIETY**  
**APRIL 5, 2002**

The 69th Annual Meeting of the Southeastern Section of the American Physical Society (SESAPS) will be held October 31-November 2, 2002 (Thursday-Saturday) at Auburn, Al. Our host for this meeting will be the Auburn Department of Physics. The local arrangements committee is chaired by Micheal Pindzola who may be reached at (334)-844-4127 (phone) and [pindzola@physics.auburn.edu](mailto:pindzola@physics.auburn.edu) (e-mail). The Program Committee Chair is Brad Cox of UVa, who may be reached at (434)-982-5377 (phone), (434)-982-3575 (Fax) [cox@uvahea.phys.virginia.edu](mailto:cox@uvahea.phys.virginia.edu) (e-mail).

**THIS IS THE FIRST CALL FOR ABSTRACTS OF CONTRIBUTED PAPERS:** SESAPS will use electronically submitted abstracts (brief instructions are at the end of this newsletter) for publication in the BULLETIN of the AMERICAN PHYSICAL SOCIETY. The deadline for the receipt of contributed papers and abstracts is no later than **Friday, August 16, 2002**. The entire program will be organized the following week. All abstracts received electronically by the deadline will be published in the November, 2002, BULLETIN of the AMERICAN PHYSICAL SOCIETY.

**All abstracts of contributed papers must be prepared in the standard APS format as specified in recent issues of the APS News.** If the abstract is submitted to the APS only on paper, just the title and authors will appear in the BULLETIN.

**The Program Chairman is:**

**Dr. Brad Cox**  
**Department of Physics**  
**University of Virginia**  
**Charlottesville, Va. 22901**  
**(434) 982 5377 (Phone)**  
**(434) 982 3575 (Fax)**  
**[cox@uvahea.phys.virginia.edu](mailto:cox@uvahea.phys.virginia.edu) (e-mail)**

The scheduled time for your presentation must be obtained from the bulletin WHICH WILL BE AVAILABLE ELECTRONICALLY on the WWW. Meeting rooms will have an overhead projector and chalkboard - to request other audio-visual aids, including 35 mm projectors, please make your request in writing by typing it in the special instructions box of the abstract template. Any questions about the program should be directed to Dr. Cox.

**CONTRIBUTED/INVITED PAPERS!**

Invited papers at this meeting, as in all APS meetings, are given by experts in areas selected by the Program Committee, and these talks are usually of thirty minutes duration. Contributed papers, however, are on topics of the author's choice and are ten minutes in length. On the day following the abstract deadline, all papers are organized into sessions and the sessions into the program of the meeting. This year the Program Committee will continue an idea suggested by an APS member. Some of the contributed abstracts are of such interest that the committee will

INVITE THE AUTHORS to give a SPECIAL PAPER of twenty minutes duration on the topic of their abstract at the beginning of the contributed paper session to which their talk is assigned. **There will only be a few such papers selected.**

The invitations will be listed in the printed program of the meeting and will be verified promptly by mail to the authors. If the author(s) would like to be considered for such an invitation, they are asked to type the following statement in the special instructions box:

**If invited to do so, the author is willing to expand the talk for the above abstract to twenty minutes.**

**THE 69th ANNUAL MEETING OF THE SOUTHEASTERN SECTION** of the American Physical Society (SESAPS) will be held October 31-November 2, 2002 (Thursday-Saturday) in Auburn, Al. The Physics Department at Auburn will host the meeting. The Local Arrangements Chair is Dr. Michael Pindzola who may be reached at (334)-844-4127 (phone) and [pindzola@physics.auburn.edu](mailto:pindzola@physics.auburn.edu) (e-mail), the Program Chair is Brad Cox of UVa, who may be reached at (434)-982-5377 (phone) and (434)-982-3575 (Fax). The meeting hotel is the Auburn University Hotel and Conference Center (800-228-2876). Two hundred rooms will be set aside for SESAPS, but reservations must be made by September 30.

#### **A PRELIMINARY PROGRAM INCLUDES**

Teaching and Outreach, Atomic Physics, Plasma Physics, Semiconductor Materials, Oak Ridge projects, Nuclear Physics, Elementary Particle Physics, Astronomy/Cosmology/Space Science and Biophysics. There will be a teaching demonstration program this year. Suggestions for the program should be sent to Brad Cox. The sessions will start on Thursday at 8:00 am.

**THE REGISTRATION FEE STRUCTURE IS UNCHANGED.** Registration will be \$35.00 for SESAPS and other APS members, \$50 for nonmembers, \$5 for retired physicists and \$15 for graduate students. Awardee and banquet speakers will not pay the registration or banquet fee.

**A MEETING OF THE SOCIETY OF PHYSICS STUDENTS** will be held in conjunction with the SESAPS meeting and will include a student paper session where the Marsh W. White Award will be presented for the best paper given at that session. Information for the SPS meeting can be obtained from Leslie A. McCall, President of SPS at Auburn at (334) 844-7808 or [mccalla@auburn.edu](mailto:mccalla@auburn.edu).

**TRAVEL SUPPORT WILL BE AVAILABLE FOR STUDENTS THIS YEAR.** Students will be pleased to learn that modest travel grants will again be available for those presenting research papers at the SESAPS sessions. SPS students giving papers in the SPS sessions only are not eligible for travel support. An application is included in this letter.

**SUGGESTED NOMINATIONS FOR SECTION OFFICERS** should be sent to the Secretary at the address given at the end of this letter for consideration by the Nominating Committee, which is made up of the Executive Committee.

**CONGRATULATIONS TO THE ELECTION WINNERS.** The new vice chair is Lee Riedinger of Oak Ridge National Laboratory. The new executive committee member who will serve from 2002-2005 is Stephen Teitsworth of Duke. The names and addresses of all Executive Committee members are in this newsletter, and members are urged to contact the committee with their suggestions and concerns. Do not forget to urge your colleagues to join SESAPS as it is free if they are APS members.

#### **PROCEDURES FOR SESAPS AWARDS**

The following procedures were suggested by Chair Tom Gallagher after the November meeting and adopted by a vote of the executive committee by e-mail.

1. Each committee will consist of three members: the previous award winner, one member appointed for a two year term by the chair of the section, and the returning members from the previous year's committee, who will serve as chair.

2. Each committee will be charged by the chairman of the section to select a recipient and communicate the result to the chair of the section by September 15. The information to be communicated is:

- a. The name and institution of the recipient.
- b. The name and institution of the nominator.
- c. A short citation ~ 15 words.

3. The chair of the section will notify the winner and the nominator by October 1, and indicate that the nominator usually introduces the winner at the banquet. Should there be more than one nominator, only one introduces the winner. At the same time, the chair informs the secretary of the winner, the nominator and the citation.

4. The nominations for all awards will be sent to the secretary of the section by June 1. The secretary will forward copies of the nominations to the appropriate committees by June 15. Nominations will be considered for two years and then destroyed.

#### Time Table

Receipt of nominations by secretary	June 1
Transmission to Chair of award committee	June 15
Transmission of report of committee report to Chair and secretary of section	Sept. 15
Notification of winners and nominators	Oct. 1

#### **LETTER FROM THE CHAIR**

The Southeastern Section of the American Physical Society will meet at the Auburn University Hotel and Conference Center, an outstanding facility conveniently located on the campus and including hotel rooms, conference rooms, and an excellent restaurant in the same building, from Thursday, October 31 through Saturday, November 2. Preliminary plans developed by the local organizing committee indicate that it will be an interesting meeting. Activities will include a variety of invited sessions; a SPS Meeting to be held in conjunction with SESAPS; an exciting Thursday Night Classroom Demonstration Program which is said to have a "Special Halloween Theme;" a Spouse's Program which includes coffee at the AU President's Mansion, and a tour of nearby Callaway Gardens; and a Friday Night Banquet at which the SESAPS Awards will be presented. Please make plans to attend with colleagues and students.

SESAPS NEEDS YOUR HELP! While we are the oldest section and one of the largest, we could be even more effective in representing APS members in the Southeast if you will help us convince your friends and colleagues who are members of APS to accept the FREE membership in SESAPS which is available to them. Our Pogram, Beams, and Slack Awards Programs will only be effective in honoring your outstanding colleagues if you take the time to nominate them. Nomination letters and supporting documentation should be sent to Ken Hardy by June 1. As required by our Bylaws, you will receive a ballot at least three weeks before our annual meeting for the election of Vice-Chair, Treasurer, and Member-at-Large of the Executive Committee. Please consider suggesting the name of a well-qualified colleague to the nominating committee for consideration as a candidate for one of these positions. You may do this by sending the name of the person that you recommend to either Larry Cain or Ken Hardy, as soon as possible. We are trying to locate SESAPS records that can be transferred to AIP which has agreed to organize them and place them in its Niels Bohr Library. If you have some of these records or know where they are located, please contact Ron Mickens. Please bring your students to our Annual Meetings because they are the future of SESAPS. If they are presenting a paper at the meeting, they may apply for student travel support by submitting the form included in this Newsletter to Lee Riedinger. And finally, the Executive Committee is actively looking for sites for the 2004 and 2005 Annual Meetings and would welcome your suggestions. We request that you become more active in SESAPS, and look forward to seeing you at Auburn.

W. Lawrence Croft  
Chair, SESAPS (2002)

## Provisional Minutes 2001 Executive Committee

The meeting was called to order by Ron Mickens, Chair, at 9 am at Charlottesville, Va. The minutes of the 2000 meeting were read and accepted as read. Attending were K. Hardy, R. Mickens, Louise Perkins (guest), L. Cain, W. Croft, Lawrence Akers, Tom Gallagher, Brad Cox, Glen Edwards and David Ernst.

Ron Mickens and Walter Croft reported on their visit to Auburn University, the site of the 2002 meeting. The meeting will be held in the conference center on the campus of Auburn University. The conference center has approximately 250 rooms and a dining room. The meeting will be held on Oct 30, Nov 1 and 2, a Thursday, Friday and Saturday. The Local arrangements chair is Mitch Pendzola (pindzola@physics.Auburn.edu). The 2003 meeting will be held at the university of North Carolina, Wilmington, N.C. The local arrangements chair is Moorad Alexanian. Ron Mickens will arrange for invitations to meetings beyond 2003. LSU was suggested as a site. The executive committee passed a motion that "as part of the agreement with the executive committee to host a meeting, the local arrangements committee is obligated to invite the Society of Physics Students (SPS) and the American Association of Physics Teachers"

A discussion was held about audio and visual aids to be available at meetings. A resolution was passed. "The use of special visual, and audio aids will be at extra cost. Arrangements must be made with the local arrangements committee for the meeting.

A discussion of "resolutions" was held. It was agreed that a new policy will be announced in the news letter. Members may send to the secretary news of members passing away. Brief statements will be made in the news letter, and announcements will be made at the business meeting. Efforts will be made to have the chairs of the award committees to follow the new rules for the awards. In particular, nominations will be sent to the secretary, there will be only one award of each prize except under exceptional circumstances, the committee chairs will not announce the award winners, but will notify the chair of the section, who will make the official announcement.

Ron Mickens will start negotiations for the preservation of the records of the section. Ken Hardy will attempt to get the record of financial transactions for the section to Larry.

The executive committee has granted "life Membership" to all "grandfathered" SESAPS members who are not a member of APS.

Glen Edwards will investigate how to further modernize our business, for example, a electronic version of the bulletin.

Ken will send a email to all SESAPS members in the SES announcing the delay of election result tabulation until Dec. 1, due to the current mail delay.

A discussion of the use of sorting categories was held.

Larry Cain gave the treasures report. We are in good shape. The budget for next year is as follows.

Chair	100
Secretary	2500
Treasurer	100
Banquet Speaker	500
Bull. Aps	6080
Student Support	3000
Meeting Support	1000
White Award (SPS)	200
Miscellaneous	300
Total	13780

## **THE FOLLOWING INFORMATION WAS GENERATED BY APS TO ASSIST YOU WITH THE PREPARATION OF ELECTRONICALLY SUBMITTED ABSTRACTS**

### **Abstract Submission**

The deadline for the submission of all abstracts is Friday, August 16, 2002, 5:00 pm EST at the APS Headquarters.

The deadline is firm, so don't wait until the last minute! Send early - save yourself the stress.

### **Electronic Submission**

Last year, the APS instituted an electronic abstract submission process, which was an enormous success, with almost 80% of all the abstracts being submitted electronically. We are hoping for an even better turnout electronically this year. There are many advantages to submitting electronically.

- E-mail message confirming receipt of your abstract
- E-mail notification of the scheduling of your paper
- The complete abstract will appear in the electronic version of the program which will be posted on the AS Home Page, well in advance of the printed program. (Abstracts submitted in paper form will have only the title and author listed in the electronic program)

For information on how to submit an abstract electronically, send an e-mail message to "abs-info@aps.org" and use the word "info" in the text of your message. To receive the template, send a message to "abs-request@aps.org" and put the words "request <meeting ID>" in the text of your message. The information and/or template will be returned to you by e-mail. If you have particular questions regarding the information, or need assistance, send a message to "abs-help@aps.org".

Submitting electronically is very easy. The mark-up language we use is LaTeX, but you do not need to know LaTeX in order to submit an abstract. Simple ASCII text will suffice, unless you need to put mathematical symbols or Greek characters in the text of your abstract - and most of those instructions are very simple.

### **Paper Submission**

Abstracts received via postal mail will be accepted; however, only the title and authors of the paper will appear in the printed version of the Bulletin and on the World Wide Web version of the Bulletin.

Please follow the instructions for the preparation of paper abstracts as they appear in each issue of APS Meeting News. These abstracts should be sent to:

<Meeting ID or Meeting Name>  
Meeting Abstracts  
APS Meetings Department  
One Physics Ellipse  
College Park, MD 20740-3844

Please do NOT also send a paper abstract to APS if you are submitting your abstract electronically. All abstracts must be at the headquarters office by the deadline date. APS assumes no responsibility for mail delays. Receipt of paper abstracts will not be confirmed unless accompanied by a self-addressed, stamped envelope.

### **Some Electronic Do's and Don't's**

Do not simply "reply" to the address from which you received the abstract template. Send the abstract to "abs-submit@aps.org". Make sure you have the correct meeting ID <Meeting ID>.

One abstract per message! The system is automated. Sending two or more abstracts in one message increases the likelihood that all but the first abstract will disappear into the ether.

Use only one sorting category for your abstract in the "Sort Category" field. In order to sort the papers properly, it is important that the system deal with only one request. If you wish to give additional guidance to those who are putting the program together, please do so in the "Special

Instructions" field. The Sort Category" field has four curly braces. Please use them as follows:

`\Sort Category {15}{L}{}{}{}.` **Not** `\Sort Category {15L}{}{}{}{}.`  
**and not** `\Sort Category{15}{L}{32}{B}.` **Do not remove left over braces.**

Only submit your abstract once. You should receive an e-mail message telling you that we got your message within 24 hours. If you have not, contact "abs-help@aps.org".

Respectfully

Ken Hardy, Secretary

SOUTHEASTERN SECTION OF THE AMERICAN PHYSICAL SOCIETY  
 EXECUTIVE COMMITTEE 2002

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APPLICATION FOR STUDENT TRAVEL SUPPORT TO THE SESAPS MEETING  
The student must be a presenter at a SESAPS session

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_

ZIP: \_\_\_\_\_ EMAIL: \_\_\_\_\_

SCHOOL: \_\_\_\_\_

UNDERGRADUATE/CLASS: \_\_\_\_\_

GRADUATE/CLASS: \_\_\_\_\_

ABSTRACT TITLE: \_\_\_\_\_

ABSTRACT AUTHORS: \_\_\_\_\_

AMOUNT REQUESTED (\$300 MAX) \_\_\_\_\_

PURPOSE OF REQUESTED FUNDS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

RETURN BY 15 OCTOBER TO:

LEE RIEDINGER  
OAK RIDGE NATIONAL LABORATORY  
PO BOX 2008  
OAK RIDGE TN, 37831-6263