

**WINTER NEWSLETTER
OF THE
SOUTHEASTERN SECTION
OF THE
AMERICAN PHYSICAL SOCIETY**

March 17, 2005

A LETTER FROM THE CHAIR

I am delighted to serve as the Chair of the Executive Committee of the Southeastern Section of the American Physical Society (SESAPS). I am a native of Virginia and have spent most of my career in the Southeast, and as such, I have a warm affection for the educational institutions and research facilities in the Southeast. These are wonderful times to be a physicist in the Southeast: many physics departments have grown in size over the last decade, new facilities are under construction and will be open for research within the next two years, and significant upgrades are underway to existing facilities.

Many thanks to Lee Riedinger for his leadership as the Chair of our society last year and for his many years of service to SESAPS. As the new Chair, I will work hard to maintain the high standards set by Lee and by all those who have held this office. I am thankful for the incredible job done by the staff of Oak Ridge National Laboratory in hosting the 2004 SESAPS Meeting. I give a special word of appreciation to Chang-Hong Yu and the local organizing committee. I am grateful to the Program Committee for their hard work in putting together a broad and cutting-edge scientific program.

For his many years of service as the secretary of SESAPS, I give my deepest and warmest appreciation to Professor Kenneth Hardy of the Florida International University. For as long as I can recall or perhaps, care to recall, my SESAPS newsletter has come from Ken Hardy. It's been great working with Ken over the years, and I wish him the best as he leaves the SESAPS Executive Committee. I welcome our new secretary, Stanley Deans of the University of South Florida, to the Executive Committee.

A major goal for me this year is to intensify our efforts to increase the SESAPS membership. Increasing the membership will result in gained revenue for our society, which would make it possible for us to consider expanding such programs as the travel awards for graduate students, the awards made to undergraduate presenters at the SPS sessions at our annual conference and possibly to provide some travel support for undergraduate students.

As recognized by the SESAPS Executive Committee, to make a significant impact on increasing the SESAPS membership requires broad community participation in the effort. While substantial progress was made during the last two years, there is still much room for growth, e.g., of approximately 5000 APS members who work in the Southeast, only about 2100 are SESAPS members. I will work with Lee Riedinger in his new office as the Past Chair to continue his efforts in implementing the "Friends of SESAPS" network to establish a contact person at most physics departments in the southeast region. To get started, I ask all department chairs who read this statement to identify a faculty member to serve a five-year term as the "Friend of SESAPS" in your department. The duties of this position are very light: (1) remind faculty members to join SESAPS and (2) serve as the department contact for disseminating information

on SESAPS activities and opportunities. The contact information (name and email address) of the "Friend of SESAPS" in your department should be sent to Calvin Howell <howell@tunl.duke.edu> with the subject "Friend of SESAPS".

If you are a member of the APS and live in the Southeast region but are not a member of SESAPS, you should join SESAPS now! It's free and simple. Go to <<http://www.aps.org/memb/unitapp.cfm>>. You will have the options of either adding SESAPS to your membership online or printing out a unit's membership form and faxing the completed form to the APS headquarters in College Park, MD.

I look forward with great anticipation to our annual meeting this fall, which will be hosted by the University of Florida in Gainesville. Professor Alan Dorsey is the Chair of the local organizing committee, and Professor Paul Avery is the Chair of the Program Committee. In planning the meeting within the context of the 2005 World Year of Physics, some sessions will be devoted to topics related to the work of Einstein, and the topic of the banquet speaker will be relevant to Einstein's physics legacy. During these times of highly specialized topical meetings, the annual SESAPS conference gives physicists in our region a refreshing opportunity to survey physics beyond their own specialty. I strongly encourage you to plan to attend the SESAPS-2005 meeting during this World Year of Physics.

I look forward to seeing you in Gainesville in November.

Calvin R. Howell
Professor of Physics at Duke University and
Deputy Director of the Triangle Universities Nuclear Laboratory

A MESSAGE FROM THE MEMBERSHIP COORDINATOR

Dear SESAPS members,

In my capacity as membership coordinator of the Southeastern Section I am asking the members of SESAPS to encourage your fellow members of the APS who are not yet members of SESAPS to seriously consider joining SESAPS. I would ask that you bring up the issue of SESAPS membership in one of your local departmental meetings to more widely publicize SESAPS.

There is no cost to a member of the APS to join SESAPS, and is easy to do. Simply go the SESAPS web page at <http://www.phy.davidson.edu/sesaps/> and click on the link "Application to Join Units". There are several advantages to being a member of SESAPS and no disadvantages. In particular, membership is a way to become more actively involved in issues that affect everyone in our region and to become acquainted with the undergraduate and graduate students and postdocs involved in the physics projects.

There are about 2100 members of SESAPS out of approximately 5000 members of the APS in Southeast. We would hope that every member of APS in the Southeast would eventually become a member of SESAPS.

Brad Cox
University of Virginia
Membership Coordinator, SESAPS

The 72nd Annual Meeting of the Southeastern Section of the American Physical Society (SESAPS) will be held November 10-12, 2005 (Thursday-Saturday) at Gainesville, FL. (NOTE: This is a different date than shown on

the APS 2005 printed calendar.) The local arrangements committee is chaired by Dr. Alan T. Dorsey, Department of Physics, Gainesville, FL 32611-8440, 352-392-0521 (phone), chair@phys.ufl.edu. The Program committee is chaired by Dr. Paul Avery, of the University of Florida, 352-392-9264 (phone) avery@phys.ufl.edu. Information about the meeting will be posted on the SESAPS web site: <http://www.phy.davidson.edu/sesaps> as soon as it is available.

THIS IS THE FIRST CALL FOR ABSTRACTS OF CONTRIBUTED PAPERS: SESAPS will use electronically submitted abstracts for publication in the 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 scheduled time for your presentation must be obtained from the bulletin WHICH WILL BE AVAILABLE ELECTRONICALLY on the web. 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. Avery.

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. 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.**

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. The SPS contact person has not been determined at this time. As soon as that person is identified, the contact information will be posted on the SESAPS website.

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 newsletter and is also available on the SESAPS website.

SUGGESTED NOMINATIONS FOR SECTION OFFICERS should be sent to the Secretary at the address given at the end of this newsletter for consideration by the Nominating Committee, which is composed of the members of the Executive Committee.

CONGRATULATIONS TO THE ELECTION WINNERS: The new Vice Chair is Thomas B. Clegg of the University of North Carolina. The new Executive Committee member who will serve from 2005-2008 is Paul D. Sheldon of Vanderbilt University. The names and addresses of all Executive Committee members are at the end of this newsletter. 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 adopted at the November 2003 meeting by a vote of the Executive Committee.

1. Each award selection 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 member from the previous year's committee, who will serve as Chair. In making the appointment to an award committee, the section Chair will attempt to establish a balance in geographical distribution, and between Ph.D. and B.S. granting institutions, and among research fields where appropriate. Any number of committee members may be previous winners of the award.
2. Each committee will be charged by the SESAPS Chair of the section with selecting a recipient and communicating the result only to the Chair 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 SESAPS Chair will then 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. Nominations for each award should be sent to the Award Committee Chair by June 1. Four copies of each nomination, consisting of a nominating letter and up to three supporting letters (a maximum of two pages each), should be sent. No other supporting documents are needed. The nominator is also asked to send an email to the Chair (howell@tunl.duke.edu) and Vice Chair (clegg@physics.unc.edu) of the Section informing them of the submission.
5. Up to three unsuccessful nominations may be forwarded by one year's committee to the next year's committee.

Time Table

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

All nominations are to be sent to the chairs of the awards committees, who will then distribute them to the committee members and to the Vice Chair of the Section. This year the nominations should be sent to:

BEAMS:

Professor Mark A. Riley
214 Keen Building
Department of Physics
Florida State University
Tallahassee, FL 32306
mriley@nucmar.physics.fsu.edu

PEGAM:

Professor Cynthia Keppel
Jefferson Laboratory
Mail Stop 12H
12000 Jefferson Ave.
Newport News, VA 23606
keppel@jlab.org

SLACK:

Professor Laird Kramer
Department of Physics, CP 204
Florida International University
11200 SW 8th St.
Miami, FL 33199
Laird.Kramer@fiu.edu

**Minutes of the Executive Committee Meeting of SESAPS
November 12, 2004
Oak Ridge, TN.**

The meeting was called to order at 12:15 p.m. by Chair Lee Riedinger at Oak Ridge Tennessee.

Attending the meeting was K. Hardy, L. Cain, V. Greene, S.R. Deans, Ron Mickens, Joe Hamilton, Glenn Edwards, L. Riedinger, Calvin Howell, Brad Cox, and Paul Avery.

Larry Cain gave the treasurer's report. Basically we are in good shape, for 2003-2004 the income was \$13,022.717 and expenses were \$12,821.56. There were several discussions prior to the approval of the budget, which appears at the end of these minutes.

It was decided that an effort would be made to hold a meeting of Physics department chairs prior to or during the SESAPS meeting. There was a discussion of the SPS meeting held in conjunction with the SESAPS meetings.

The minutes for the 2003 meeting were distributed, and approved with changes to the spelling of V. Greene and Jerzy Bernholc.

There was a brief discussion of the Newsletter.

Ron Mickens discussed the archival process. Materials thought to be of interest can be sent directly to the Niels Bohr library at the AIP. The library would rather have persons submitting material not sort through the material.

Paul Avery reported on the first electronic election for SESAPS officers and Executive Committee member. In this electronic system of elections, about 28% of the section voted. This was an increase of about a factor of four over paper ballots.

Thomas B. Clegg, UNC-Chapel Hill was elected Vice Chair.

Paul D. Sheldon of Vanderbilt was elected to the Executive Committee.

Stanley R. Deans of University of South Florida was elected as Secretary.

Next year's meeting will be held at the University of Florida. Meetings for 2006 and beyond have not been scheduled at this time.

Lee Riedinger discussed the duty of chapter officers. Members of the executive committee who previously had no formal duties, will be given duties such as increasing membership, meeting site development, friends of SESAPS, and development of nominations for section officers.

A discussion of section membership was led by Brad Cox who is our membership coordinator. It was noted that the section membership is slowly increasing, and we are now the largest section in APS. The only sections growing faster are the new small sections.

Joe Hamilton pointed out that this is the last year that he will be on the APS council and he is in a position to help the section get members on national committees.

A brief discussion of the mission of SESAPS was held.

The final budget approved by the board:

Chairman	\$ 100.00
Secretary	\$ 1000.00
Treasurer	\$ 100.00
Banquet Speaker	\$ 500.00
Bulletin - APS	\$ 8100.00
Student Travel	\$ 2500.00
Meeting Support	\$ 1000.00
SPS (Marsh White)	\$ 200.00
Miscellaneous	\$ 300.00
Total	<u>\$13800.00</u>

The meeting was adjourned at 2:30 p.m.

Ken Hardy
Secretary

**SOUTHEASTERN SECTION OF THE AMERICAN PHYSICAL SOCIETY
EXECUTIVE COMMITTEE 2005**

<p>Chair Dr. Calvin Howell Department of Physics and TUNL Duke University, Box 90308 Durham, NC 27708-0308 919 660 2632 P 919 660 2634 F howell@tunl.duke.edu</p>	<p>Chair Elect Dr. Paul Avery Department of Physics University of Florida, Box 118440 Gainesville, FL 32611-8440 362 392 9264 P 352 392 8863 F avery@phys.ufl.edu</p>
<p>Vice Chair Dr. Thomas B. Clegg Department of Physics and Astronomy UNC Chapel Hill, 27599-3255 919 843 8168 P 919 962 0480 F clegg@physics.unc.edu</p>	<p>Past Chair Dr. Lee Riedinger Oak Ridge National Lab P.O. Box 2008 Oak Ridge, TN 37831-6263 865 574 4321 P 865 241 2967 F riedingerl@ornl.gov</p>
<p>Treasurer Dr. Larry Cain Department of Physics Davidson College, Box 6919 Davidson, NC 28035-6919 704 894 2347 P 704 894 2894 F lacain@davidson.edu</p>	<p>Secretary Dr. Stanley R. Deans Department of Physics, PHY 114 University of South Florida Tampa, FL 33620 813 974 1639 P 813 974 5813 F sdeans@cas.usf.edu</p>
<p>Executive Committee 2002-2005 Dr. Stephen Teitsworth Department of Physics, Box 90305 Duke University Durham NC 27708-0305 919 660 2560/2551 P 919 660 2525 F teitso@phy.duke.edu</p>	<p>Executive Committee 2004-2007 Dr. Victoria Greene Vanderbilt University Box 1807, Station B Dept. of Physics and Astronomy Nashville, TN 37235 615 343 0657 P 615 343 7263 F senta.v.greene@vanderbilt.edu</p>
<p>Executive Committee 2005-2008 Dr. Paul D. Sheldon Vanderbilt University Box 1807, Station B Dept. of Physics and Astronomy Nashville, TN 37235 615 343 0484 P 615 343 7263 F paul.sheldon@vanderbilt.edu</p>	<p>Membership Coordinator Dr. Bradley Cox Department of Physics, PO Box 400714 University of Virginia Charlottesville, VA 22901 434 982 5377 P 434 982 3575 F cox@uvahea.phys.virginia.edu</p>

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 (\$250 MAX) _____

PURPOSE OF REQUESTED FUNDS: _____

CERTIFICATION OF RESEARCH ADVISOR (Please have your research advisor sign this line certifying that you are presenting this paper, or have him or her send an email to Dr. Riedinger.)

RETURN BY OCTOBER 15th TO:
Dr. Lee Riedinger
Oak Ridge National Lab
P.O. Box 2008
Oak Ridge, TN 37831-6263
riedingerl@ornl.gov