

SUMMER NEWSLETTER
OF THE
SOUTHEASTERN SECTION
OF THE
AMERICAN PHYSICAL SOCIETY

AUGUST 1, 2000

The 67th Annual Meeting of the Southeastern Section of the American Physical Society (SESAPS) will be held November 2-4, 2000 (Thursday-Saturday) at Mississippi State University in Mississippi State, MS. Our host for this meeting will be the Mississippi State University Department of Physics and Astronomy. The local arrangements committee is chaired by Rodney (Buzz) Piercey who may be reached at (662)-325-2688 (phone), (662)-325-8898 (fax), and RBPI@RA.MSSTATE.EDU (e-mail). The Program Committee Chair is Ronald Mickens of Clark Atlanta University of Atlanta, GA., who may be reached at (404)-880-6923 (phone), (404)-880-6258 (Fax), and ROHRS@MATH.GATECH.EDU (e-mail).

THIS IS THE LAST 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 paper and invited paper abstracts is no later than **5:00 PM Friday, August 25, 2000**. The entire program will be organized the following week. All abstracts received electronically by the deadline will be published in the November 2000 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, then just the title and authors will appear in the BULLETIN. Naturally, contributed papers on any subject in physics will be accepted but may not have a session devoted exclusively to their subject matter.

Contributions from students about research results, even at intermediate stages of completion, are strongly encouraged. Undergraduate students completing summer research projects should seriously consider this opportunity to communicate their results.

The Program Chairman is:

Dr. Ronald Mickens
Department of Physics
Clark Atlanta University
Box 172, Atlanta, Ga. 30311
(404) 880 6923 (Phone)
(404) 880 6258 (Fax)
ROHRS@MATH.GATECH.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 on the abstract template. Any questions about the program should be directed to Dr. Mickens.

Invited papers at this meeting, as at 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 by 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 below the abstract: **If invited to do so, the author is willing to expand the talk for the above abstract to twenty minutes.**

Poster Presentations: Facilities will also be available for poster presentations. If a SESAPS contributor would prefer a poster presentation, it should be noted with the following statement typed below the abstract: **Poster presentation preferred.** You should also check the appropriate box or fill the appropriate blank on your electronic submission form.

Abstract Submission: Complete abstract submission instructions can be found at <<http://www.aps.org/meet/meet-abstract.html>>.

Authors are strongly urged to proof their abstract carefully before submission. Contributors may submit in one of two ways:

(1) Via the web: To submit a contributed abstract using the online web submission process, an author needs to know two things: (a) the number and ordering of authors and collaborations; and (b) what to write for the abstract content. The web page will guide you through the rest. Try a test submission before submitting your abstract. Log onto <<http://abstracts.aps.org>> and select the meeting TEST. Follow the directions online to create your own practice abstract.

When ready to submit your abstract online, select the meeting (SES00) by clicking on the appropriate button. A form will be created for you. Simply input the information.

(2) Via e-mail: Contributors must create their abstracts from an electronic template supplied by the American Physical Society.

The template and instruction files for contributed abstracts can be obtained by sending email to <abs-request@aps.org> with the phrase REQUEST SES00 in the message. Also, see attached material at the end of this newsletter.

If you have questions regarding abstract submission, please send them to <abs-help@aps.org>.

THE 67th ANNUAL MEETING OF THE SOUTHEASTERN SECTION of the American Physical Society (SESAPS) will be held November 2-4, 2000 (Thursday-Saturday) in Mississippi State, MS. The Physics and Astronomy Department at Mississippi State University will host the meeting. The meeting will cover a number of important and exciting topics, including physics education research, applied physics and industrial applications of physics, material sciences, computational physics, optics and quantum optics, astrophysics, and free electron laser physics. All primary meeting sessions will be held at the Wise center on campus. Registration on Thursday is from 5-8PM at the Dial Research Facility with an informal reception. On Friday and Saturday, registration will be in the Wise center lobby.

All sessions are planned for the Wise center. The banquet will take place Saturday evening in the Bost center following a reception. The Mississippi section of AAPT has agreed to meet with SESAPS.

Registration

will be \$35.00 for SESAPS and other APS members, \$50 for nonmembers, \$5 for retired physicists and \$15 for graduate students. Awardees and banquet speakers will not pay the registration or banquet fee. Undergraduate students may register free at the Society of Physics Students' table. There is provision for advance registration on the web site for the meeting: (<http://sesaps.msstate.edu>). Credit cards will be accepted.

The Local Arrangements Chair is Rodney Piercey, Department of Physics and Astronomy, Mississippi State University, Mississippi State, MS 39762; E-mail: rbp1@ra.msstate.edu; Telephone: (662)325-2806. The Program Chair is Ronald Mickens, Physics Department, Clark Atlanta University, Atlanta, GA 30314; E-mail: rohrrs@math.gatech.edu; Telephone: (404)-880-6923. For more information on SESAPS 2000 link to URL: <http://SESAPS.msstate.edu/>.

This is a very good web site, with lots of information about the area, and several good links to attractions, etc.

A PROGRAM OF PHYSICS TEACHING DEMONSTRATIONS IS BEING PLANNED. On Friday afternoon, November 3, starting at 5PM the traditional lecture demonstration session will take place in Hilbun Hall on the Mississippi State campus.

The scheduled time for each presentation must be obtained from the Bulletin which will be available electronically.

Society of Physics Students Meeting: A separate SPS meeting for undergraduate students will be scheduled in conjunction with the SESAPS meeting. Registration will be separate from the SESAPS registration and at a separate SPS desk in the hotel lobby.

The primary student paper session, with 10-minute oral presentations, is where the Marsh W. White Award will be given for the best paper. Depending on demand, alternate poster presentations may also be possible.

A LETTER FROM THE CHAIR

The SESAPS annual meeting is one of the few APS meetings which spans all of physics. For example, this years meeting includes a broad range of topics, ranging from high energy and nuclear astrophysics to industrial applications of physics.

Exposure to such a range of topics is extremely valuable, for it reminds us of the intellectual breath of physics and the fact that there is elegant physics everywhere. It is all too easy to lose sight of the exciting advance in areas of physics other than your own, and for this reason I hope to see you in November at Mississippi State.

This year the APS council has decided to give, for the first time, sectional representatives a vote, on a rotating basis. At any given time two of the sections can vote.

Our turn is for the next four years, so if you have an issue which you wish to have brought before the APS council, now is the time to do so, and you should speak to either a member of the executive committee, or our representative Joe Hamilton.

Tom Gallagher, Chair

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 session. SPS students giving papers in the SPS sessions only are not eligible for travel support. Please use the form included with this newsletter.

The Pegram, Beams, and Slack committees

have not made their recommendations. The winners of these awards will be announced on our home page. SESAPS members are urged to nominate candidates for these awards, as a large number of candidates generally results in meaningful awards.

SUGGESTED NOMINATIONS FOR SECTION OFFICERS should be included on the election ballot, which is included, for consideration by the Nominating Committee, which is made up of the Executive Committee. Please vote!

MEMBERS SHOULD CHECK OUT THE SESAPS HOME PAGE. The home page may be found through the link from the APS home page at "[HTTP://WWW.APS.ORG](http://www.aps.org)". Click on sections and click on Southeastern. The home page is at Davidson and was put together and is maintained by our treasurer, Larry Cain. Larry would welcome suggestions for changes to make the page more useful. Thanks Larry.

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 25, 2000, 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 APS 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 <ses99>" 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 your abstract electronically is surprisingly simple. 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:

<ses00>
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'ts

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 <ses00>.

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 deals only with one request.

If you wish to give additional guidance to those who are putting the program together, please feel free to 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 received your message within 24 hours. If you do not receive such a message then contact "abs-help@aps.org" for assistance.

THE SESAPS BALLOT

for the election of the 2000 officers is included in this mailing to be marked and returned to the SESAPS TREASURER no later than 5PM on November 2, 2000.

Ballots may be returned by mail or at the meeting, but in either case, must be in the envelope provided with your signature at the upper left.

This is your opportunity to participate in the selection of the leadership for your organization. Please vote for the Vice-Chair and Member of the Executive Committee.

The ballot also provides a means for input for future nominations do not hesitate to suggest yourself if you would like to participate in this way.

There is also a place on the ballot where you can make contributions to the Beams, Pegram and Slack Award Funds. Such contributions are our means to continue the yearly presentation.

Respectfully,

Kenneth A. Hardy
Physics Department
Florida International University
Miami, FL 33199
(305) 348-2605 (phone), (305) 348-6700 (fax)
hardyk@fiu.edu (e-mail)

SOUTHEASTERN SECTION OF THE AMERICAN PHYSICAL SOCIETY
EXECUTIVE COMMITTEE 2000

<p>Chair Dr. Thomas Gallagher Department of Physics University of Virginia Charlottesville, Va. 22901 804 924 6817 P 804 924 4576 F TFG@VIRGINIA.EDU</p>	<p>Chair Elect Dr. Ronald Mickens Department of Physics Clark Atlanta University Box 172, Atlanta, Ga. 30311 404 880 6923 P 404 880 6258 F ROHRS@MATH.GATECH.EDU</p>
<p>Vice Chair Dr. Walter Croft Mississippi State Univ. Drawer N.C. Mississippi State, MS 39762 662 325 2806 P 662 325 8898 F wlcroft@ra.msstaes.edu</p>	<p>Past Chair Dr. Kirby Kemper Department of Physics Florida State Univ. Tallahassee, Fl 32306 850 644 2338 P 850 644 9848 F KIRBY@PHY.FSU.EDU</p>
<p>Treasurer Dr. Larry Cain Department of Physics Davidson College Davidson, NC 28036 704 894 4129 P (home) 704 894 2894 F lacain@DAVIDSON.EDU</p>	<p>Secretary Dr. Kenneth Hardy Department of Physics Florida International Univ. Miami, FL. 33199 305 348 2605 P 305 348 6700 F HARDYK@FIU.EDU</p>
<p>Executive Committee 98-01 Dr. Rodney Piercey Dept. of Phys. and Ast. Mississippi State Univ., Drawer 5167 Mississippi State, MS. 39762 662 325 2688 P RBP1@RA.MSSTATE.EDU</p>	<p>Executive Committee 99-02 Dr. Lawrence Akers Department of Physics 401 Crewdson Ave. Chattanooga, Tn. 37405 423 756 2329 P 423 755 4279 F larry-akers@utc.edu</p>
<p>Executive Committee 00-03 Dr. David Ernst Vanderbilt University Nashville, Tn 37235 615 322 2828 P 615 322 1103 F DAVID.J.ERNST@VANDERBILT.EDU</p>	<p>Executive Committee 97-00 Dr. Calvin Howell Department of Physics Duke University, BOX 90308 Durham, NC. 27708 919 660 2632 P 919 660 2634 F howell@tunl.tunl.duke.edu</p>
<p>APS Representative Dr. Joe Hamilton Department of Physics Vanderbilt Univ. PO Box 1807-B Nashville, TN 37235 615 322 2456 P 615 343 7263 F HAMILTJ1@CTRVAX.VANDERBILT.EDU</p>	

APPLICATION FOR STUDENT TRAVEL SUPPORT TO THE SESAPS MEETING

NAME: _____

ADDRESS: _____

CITY: _____ STATE: _____

ZIP: _____

SCHOOL: _____

UNDERGRADUATE/CLASS: _____

GRADUATE/CLASS: _____

ABSTRACT TITLE: _____

ABSTRACT AUTHORS: _____

AMOUNT REQUESTED (\$100 MAX) _____

PURPOSE OF REQUESTED FUNDS: _____

RETURN BY 1 OCTOBER TO:
KENNETH A. HARDY, SECRETARY SESAPS
PHYSICS DEPARTMENT
FLORIDA INTERNATIONAL UNIVERSITY
UNIVERSITY PARK, MIAMI, FL 33199

SOUTHEASTERN SECTION
AMERICAN PHYSICAL SOCIETY
2000 BALLOT

FOR VICE-CHAIR

Brad Cox UVa. _____

Steve Mintz FIU. _____

FOR EXECUTIVE COMMITTEE

Glen Edwards Duke _____

E. Craig Dukes UVa. _____

FOR APS REPRESENTATIVE

Joe Hamilton Vanderbilt _____

Please list below any suggestions for future officers of the section

NAME

OFFICE

Many members of the section have made donations to the Jesse Beams Award for outstanding contributions to research and to the George Pegram Award for outstanding contributions to teaching so we want to offer an opportunity for others to contribute to the Beams-Pegram and Slack fund. Please feel free to cut this section from the ballot and use it to make your contribution by sending it to Dr. Laurence Cain, Department of Physics, Davidson College, Davidson, NC 28036. Dr. Cain will also accept contributions at the SESAPS meeting.

Name_____

Beams-Pegram Amount_____

Slack Amount_____