

SUMMER NEWSLETTER
OF THE
SOUTHEASTERN SECTION
OF THE
AMERICAN PHYSICAL SOCIETY

AUGUST 1, 1998

The 65th Meeting of SESAPS will be held in Miami, Florida on Friday through Sunday, 13-15 November 1998. Our host for this meeting will be the Florida International University Physics Department. The local arrangements committee is chaired by Ken Hardy who may be reached at (305) 348-2605 (phone), (305) 348-3053 (fax) and HARDYK@SERVAX.FIU.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 papers and abstracts is no later than **Friday, August 28, 1998**. The entire program will be organized the following week. All abstracts received electronically by the deadline will be published in the November 1998, 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.

THE ABSTRACT FEE HAS BEEN ELIMINATED, BUT THE FEE STRUCTURE FOR THE MEETING HAS BEEN CHANGED. THE NET COST TO MEMBERS WHO SUBMIT ONE ABSTRACT WILL BE LOWER. The Program Chairman is:

Dr. Kirby Kemper
Department of Physics
Florida State University
Tallahassee, FL 32306
(850) 644 2338 (Phone)
(850) 644 9848 (Fax)
KIRBY@PHY.FSU.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 on the abstract template. Any questions about the program should be directed to Dr. Kemper.

THE INNOVATION FROM PREVIOUS MEETINGS IN CONTRIBUTED PAPERS WILL BE CONTINUED!

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.

THE PROGRAM CHAIRMAN INVITES SUGGESTIONS FROM THE MEMBERSHIP REGARDING THE SUBJECT OF INVITED PAPERS.

Currently, invited sessions on the following topics are scheduled: Atomic Physics, Astronomy and Biophysics. Mixed sessions consisting of invited and contributed papers on the following topics are scheduled: Applied Physics, Astronomy/Astrophysics, Atomic-Molecular-and-Optical Physics, Biophysics, High Energy/Particle Physics, Intermediate Energy Electron Scattering, Materials Research/Condensed Matter, Nuclear Physics and Physics Teaching. If sufficient interest is expressed, a session on outreach programs will be scheduled. Naturally, contributed papers on any subject in physics will be accepted but may not have a session devoted exclusively to their subject matter.

FLORIDA INTERNATIONAL UNIVERSITY WILL BE OUR HOSTS FOR THE 1998 MEETING OF SESAPS.

The meetings will be held at the Radisson Mart Plaza Hotel that will be the headquarters hotel. The phone number for reservations is 305 261 3800. Mr. Peter Waxon will be able to resolve any problems. The hotel is close to the airport and the University. The room rate is \$85.00. Miami offers many entertainment, and unique environmental attractions. Viscaya Museum and Gardens, the Bayside Market Place, The Parrot Jungle, Fairchild Tropical Gardens, Everglades National Park, the Florida Keys, and the best beaches in the US are close and accessible. There are many fine restaurants and clubs featuring continental, traditional, and Spanish dining. The historic South West 8th Street is the center of Cuban culture. Restaurants in this area feature traditional Cuban food and atmosphere. There are excellent seafood cafes, including the world famous Joe's Stone Crab. The South Beach area features many late night cafes, sidewalk cafes and dance clubs. For those who care, celebrities such as Madonna and Sylvester Stallone can frequently be seen here. The enclosed maps will help you locate the hotel if you are driving. The Radisson Mart Hotel has shuttle service from the airport. The hotel has a courtesy telephone in the arrival area near the rental car counter. We look forward to seeing you in Miami.

A PROGRAM OF PHYSICS TEACHING DEMONSTRATIONS IS SCHEDULED FOR FRIDAY EVENING. Members wishing to participate in a teaching demonstration program should contact Dr. Kemper for details about this program. The demonstration program will be held at Florida International University. There will be an open house at the Physics Department before the demonstration program and tours of the research laboratories will be given. Refreshments will be available.

FLORIDA INTERNATIONAL UNIVERSITY

will host two one-day workshops on November 12, 1998 prior to the SESAPS meeting. One will be on Studies of Hadron Structure with Electrons and Photons chaired by W. Boeglin and L. Kramer; the other will be on Atomic, Molecular and Optical Physics chaired by K. Hardy and Y. Zhu. E mail addresses for information are: BOEGLINW@FIU.EDU; KRAMERL@FIU.EDU; YIFUZHU@FIU.EDU and HARDYK@SERVAX.FIU.EDU.

TRAVEL TO MIAMI

is convenient as Miami is served by major airlines such as American, U.S. Air, and Delta and is at the end of I75 and I95 interstate highways and the Florida Turnpike. The enclosed maps should help.

THE REGISTRATION FEE STRUCTURE HAS BEEN CHANGED. In order to accommodate the electronic submission of abstracts, the executive committee of SESAPS made the following changes in the registration fee structure. It should be emphasized that a member submitting one abstract will save money with the new fee structure. 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. Undergraduate students may register free at the Society of Physics Students' table. Registration will be open at the headquarters hotel from 18:00 to 21:00 on November 12 and will continue each day of the meeting.

A LETTER FROM THE PRESIDENT

Colleagues: Planning is now well underway to produce an exceptional meeting in Miami. The facilities at the Radisson Hotel are excellent and conveniently located for getting to the reception preceding our traditional physics

demonstration show at Florida International University, our host institution. Kirby Kemper is organizing the sessions for the main program, and the Society of Physics Students chapter at FIU is already working on sessions that will highlight undergraduate research. Last year's undergraduate research session at Vanderbilt was very well attended, and we look forward to greater participation this year. This is an excellent forum for presentation of undergraduate research projects, and I encourage you to make plans for participation by your SPS chapters.

I am especially pleased to announce that Worth Seagondollar will be the speaker at our banquet on Saturday, November 14. All who have been associated with SESAPS for a few years know of Worth's dedicated service for our section and his talk entitled "The First Man-made Nuclear Explosion" based on his first hand experience will be a real treat.

A special feature of the meeting will be a display which highlights several major research facilities in the southeast and which will be the SESAPS exhibit at the centennial meeting in Atlanta next year. Having an exhibit at the centennial meeting is particularly appropriate since ours is one of the larger sections of APS. Worth Seagondollar has coordinated the development of this exhibit for SESAPS, and we hope that it, along with a progress report from APS, will stimulate interest in the centennial meeting.

We're looking forward to an outstanding meeting in Miami, and I hope to see you there.

Sincerely,

Richard Patty
Chair, SESAPS

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. Instructions for the submission of student abstracts are included. Do not confuse these instructions with the instructions for the submission of APS abstracts.

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.

THE GEORGE B. PEGRAM AWARD FOR EXCELLENCE IN TEACHING committee has made its recommendation. The winner of the Pegram award will be announced on our home page. The Beams award committee has not made their recommendation at this time. 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 will be mailed separately, for consideration by the Nominating Committee, which is made up of the Executive Committee.

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 29, 1997, 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 that 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 <ses98>" 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:

<ses98>
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 <ses98>.

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

THE SESAPS BALLOT for the election of the 1998 officers is included in this mailing to be marked and returned to the SESAPS TREASURER no later than 10AM on November 13, 1998. 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 and Pegram Award Funds. Such contributions are our means to continue the yearly presentation.

Respectfully,

Kenneth A. Hardy
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Miami, FL 33199
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SOUTHEASTERN SECTION OF THE AMERICAN PHYSICAL SOCIETY

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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

Call for Abstracts

Society of Physics Students Multizone Meeting

Southeastern Section of the American Physical Society

November 14, 1998

Airport Radisson, Miami, Florida

This is a call for abstracts for the Society of Physics Students (SPS) Multizone Meeting to be held in conjunction with the Southeastern Section of the American Physical Society, (SESAPS), meeting. The Multizone Meeting for SPS will be held on November 14, 1998 during the SESAPS meeting that is being held from November 13, 1998 to November 16, 1998. Both meetings will be held at the Airport Radisson Hotel near Miami International Airport. For more information about the SESAPS meeting, contact Dr. Kenneth Hardy at Florida International University at (305) 348-2605.

The Multizone Meeting will be hosted by the Florida International University chapter of SPS, and sponsored by the National Office of SPS. The meeting will involve a morning session with a luncheon provided by the SPS followed by an afternoon session. Both sessions will involve oral presentations given by UNDERGRADUATES only. The time for each presentation will be announced after October 14. The sessions will be coordinated with those in the SESAPS meeting. The seminar starts at 8:30 am and runs until 5PM.

Abstracts must be RECEIVED no later than 5 PM EST on October 14, 1998. They must be submitted via snail mail to:

Florida International University
SPS Rm. CP 204
University Park
Miami, FL 33199

The abstract must be submitted with author(s) name, affiliation(s), contact information (i.e. e-mail, phone, etc.), and be no longer than 250 words. For further information about the Multizone Meeting and abstract submittal, call:

Dr. James R. Webb (Advisor), John D'Agnese (President), or Emily Howard (Vice President) at (305) 348-2605.
E-mail: sps@fiu.edu

SOUTHEASTERN SECTION

AMERICAN PHYSICAL SOCIETY

1998 BALLOT

FOR VICE-CHAIR

RON MICKENS CLARK ATLANTA _____

NORMAN TOLK VANDERBILT UNIVERSITY _____

FOR EXECUTIVE COMMITTEE

LAWRENCE AKERS UT CHATTANOOGA _____

BERNARD GERSTMAN FLORIDA INTERNATIONAL UNIVERSITY _____

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 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 _____ Amount _____