

Southern Ohio Section  
American Association of Physics Teachers

Executive Committee Meeting  
Saturday February 13, 1999  
Sinclair Community College  
Dayton, OH

The Executive Committee meeting of the Southern Ohio Section of the American Association of Physics Teachers (SOS/AAPT) was called to order at 10:00 AM by President F. Thomas. The meeting was held in room 4232 of Building 4 of Sinclair Community College in Dayton, Ohio. Those present were B. Clements, M. Grote, L. Lonney, C. Parrott, W. Ploughe, A. Ross, P. Shields, J. Sullivan, and F. Thomas.

A report on the Science Education of Ohio (SECO) meeting in Dayton from February 11-13, 1999 was presented by F. Thomas. The SOS/AAPT maintained a booth at this meeting where literature and other information was available for the attendees. F. Thomas manned the booth when possible. Next year the SECO meeting will be held in Cleveland, Ohio. SOS/AAPT President F. Thomas will contact our colleagues in the Ohio Section of the American Association of Physics Teachers (OS/AAPT) to report on the situation this year and express hope that the two AAPT sections would resume joint sponsorship of a booth at future SECO meetings.

A. Ross reported on plans for the spring meeting of the SOS/AAPT. It will be held in Building 12 of Sinclair Community College (Dayton, OH) on Saturday April 24, 1999. Plans are close to being finalized and the theme will be aeronautics with an emphasis on use of NASA curriculum materials. Other items of interest will deal with physics instruction and some of the state of the art items available at Sinclair. M. Grote will work with A. Ross and F. Thomas regarding publicity for this meeting in the two issues of *The Dialog* which are planned before that meeting.

Treasurer P. Shields reported on the budget. Currently SOS/AAPT has \$2181.72 in its budget. It was pointed out that approximately \$1700 of that amount is dues from lifetime members and should not be used by the section. It was agreed that the section should always attempt to keep the budget above the value of the current life memberships. Attempts will be made to review the tax status of the section in order to facilitate fiscal transfers to more lucrative accounts in the future.

M. Grote proposed an idea to increase life memberships. Currently a life membership is \$200. He proposed a once-only offer where a person may become a life member of SOS/AAPT by making 12 monthly payments of \$15 (total of \$180 for a savings of \$20). A coupon booklet will be provided to each participant with payments starting in October, 1999. All payments will have to be made by the end of September, 2000. In addition a premium (possibly a desk clock imprinted with an SOS/AAPT inscription) will be given to each such member and possibly a coupon good for a discount on graduate credit at a future SOS/AAPT meeting would be included. The Executive Committee voted in favor of this proposal and authorized M. Grote to organize and administer it.

The elections for some SOS/AAPT officers will take place during the business meeting at the spring meeting on April 24th. Offices up for election are President elect, Vice President for Colleges and Universities, Section Representative, Treasurer, and Secretary. President F. Thomas appointed a nominating committee consisting of B. Clements and F. Thomas to prepare a slate of candidates for this election.

J. Sullivan reported on what he knew of the proposed first annual SOS/AAPT golf outing (AKA "Projectile Motion Seminar."). Former SOS/AAPT President Gene Stoppenhagen (Emeritus, Ohio University) had suggested the possibility of this event and that he would organize it. This would be a social event and would be held at no cost to the SOS/AAPT (except, of course, for notices in *The Dialog*).

There was no feeling as to the demand for such an event. The Executive Committee requested that J. Sullivan contact G. Stoppenhagen to give him authorization to proceed with the event. It was suggested that G. Stoppenhagen write a description of the proposed first annual SOS/AAPT projectile motion seminar (for publication in *The Dialog*) with a request for interested persons to contact him so that the demand could be judged.

W. Ploughe reminded everyone that State Science Day will be on Saturday April 17, 1999. We will need judges for the Physics awards. M. Grote will contact G. Aubrecht about the specifics (where and when to meet, who to contact, etc.) and insure that announcements will appear in *the Dialog*.


Future meetings were discussed.

- The Fall, 1999 meeting will be a joint meeting with the Ohio Section of the American Physical Society (OS/APS) and will be held at Wright State University in Dayton, OH. It will be jointly sponsored by Wright State and the Air Force Institute of Technology (AFIT). F. Thomas is the SOS/AAPT liaison for that meeting.
- The Spring, 2000 meeting will also be a joint meeting with OS/APS and will be held at the University of Cincinnati in Cincinnati, OH. J. Sullivan is the SOS/AAPT liaison for that meeting.
- The next scheduled meeting is at The Ohio State University in Columbus, OH in the Fall of 2002.

Other sites were discussed for future meetings and B. Clements will contact appropriate persons in this regard.

The meeting adjourned at 12:10 PM.

Respectfully Submitted,



James F. Sullivan,  
Associate Secretary SOS/AAPT

SOS/AAPT Executive Committee Meeting

Feb. 13, 10:00 am, Sinclair Community College, Dayton

✓ SECO meeting	Fred
✓ Spring SOS/AAPT Meeting	Art Ross
✓ Budget status	Pat or Robert
Spring Elections	All
✓ Life Membership Drive	Mike
✓ Golf this summer	Jim
Other	
Optional Tour of Spring Meeting facilities	Fred or Art

## Transaction Summary

1/1/96 Through 1/31/99

2/10/99

AAPT-Checking

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Description	Amount
INCOME/EXPENSE	
INCOME	
Donation	656.00
Dues	1,850.00
Fall 96	476.58
Interest	89.40
Scnce Day Contr	335.00
Spring 96	20.00
Spring 97	138.93
Unknown	70.00
TOTAL INCOME	3,635.91
EXPENSES	
Bank Charge	-43.00
Convention Fees	-262.50
Duplicating	-305.53
Mail Room Chgs	-348.51
Misc	-99.39
Science Day	-1,020.00
Supplies, bus.	-1,218.56
TOTAL EXPENSES	-3,297.49
TOTAL INCOME/EXPENSE	338.42
Balance Forward	
Checking	1,543.30
Total Balance Forward	1,543.30
OVERALL TOTAL	1,881.72

## Life Membership Proposal

Offer a one-time opportunity to become a life member on a payment plan.

Provide payment booklet with 12 payments of \$15. (Total \$180—savings of \$20)

Upon completion of payments, provide a “premium” such as a desk clock printed with SOS/AAPT logo. Cost, less than \$10 each.

(This clock could also be offered to current life members at a reasonable cost to help get us up to the minimum quantity on the clock order)

In addition to the \$20 savings and clock, perhaps we could also include a coupon good for \$10 off the cost of graduate credit for attending SOS/AAPT meetings, ~~\$5 off the cost of a meeting registration.~~

To keep this manageable for our treasurer, start everyone in Sept. 1999 and finish by August, 2000.

slp

**We must set this money aside in an interest earning account and not touch the principal. I think we should also set aside as much as we can from previous life memberships.**

## **William Kuhlman**

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**From:** William Kuhlman  
**Sent:** Wednesday, April 28, 1999 5:25 PM  
**To:** 'mggrote@cc.owu.edu'  
**Subject:** SOS/AAPT Exec.Com.Meeting

Minutes of the Executive Committee  
of the  
Southern Ohio Section  
American Association of physics Teachers

Sinclair Community College  
Dayton, Ohio  
Saturday, April 24, 1999

The executive committee of the Southern Ohio Section of the American Association of Physics Teachers(SOS/AAPT) met in the cafeteria of Building 7 at Sinclair Community College in Dayton, Ohio. The meeting was called to order by president F. Thomas at 1:05 PM and those present were G. Aubrecht, B. Clemens, W. Kuhlman, L. Lonney, W. Ploughe, P. Shields, J. Sullivan, and F. Thomas.

W. Ploughe initiated a discussion concerning responsibility for reporting information to the national organization. After discussion it was decided that the secretary will prepare a summary of the meeting and send it along with the minutes to W. Ploughe for forwarding to the national AAPT. These documents will also be sent to the executive committee members and Dialog editor.

A motion was then presented to the executive committee to appoint Terrence P. Toepker of Xavier University to the unexpired term as section representative which expires in the spring of 2000. J. Sullivan moved that the nomination be ratified, seconded by B. Clemens, and motion passed by voice vote.

B. Clemens then presented the following slate of candidates to be presented to the membership at today's business meeting:

President-Elect - Larry Lonney  
Vice-President for Universities - Stephen Yerian  
Treasurer - Pat Shields  
Secretary - Bill Kuhlman

W. Ploughe moved that the slate of candidates be approved as presented, seconded by J. Sullivan, and passed by voice vote.

The executive committee discussed future meeting sites already in place and possible sites/contacts for meeting dates still open. Several suggestions were made and these people will be contacted about hosting a future meeting. Meeting adjourned at 1:30 PM.

Respectfully Submitted,  
William H. Kuhlman,  
Secretary

## **William Kuhlman**

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**From:** William Kuhlman  
**Sent:** Thursday, April 29, 1999 3:41 PM  
**To:** 'mggrote@cc.owu.edu'  
**Subject:** SOS/AAPT Business meeting

Minutes of the Business Meeting  
of the  
American Association of Physics Teachers

Sinclair Community College  
Dayton, Ohio  
Saturday, April 24, 1999

The meeting of the Southern Ohio Section of the American Association of Physics Teachers(SOS/AAPT) was called to order by president F. Thomas at 1:40 PM in room 225 in Building 4 on the Sinclair Community College Campus in Dayton, Ohio.

F. Thomas announced that W. Ploughe is stepping down as section representative and has been replaced by Terrence P. Toepker of Xavier University by executive committee appointment until the elections in the Spring of 2000.

F. Thomas also announced the following schedule of SOS/AAPT meetings:

Fall 1999 October 8-9 Wright State Univ. & Air Force Institute of Technology

Spring 2000 May 6 University of Cincinnati

Fall 2000 Celina Senior High School

Fall 2002 Ohio State University with OS/APS

F. Thomas then issued a plea for members to consider hosting a future meeting of SOS/AAPT at their institution.

The head of the election committee, B. Clemens, then presented the slate of candidates for today's elections as follows:

President-Elect - Larry Lonney

Vice-President for Universities - Stephen Yerian

Treasurer - Pat Shields

Secretary - Bill Kuhlman

A call for nominations from the floor was then issued. E. Sunderhaus moved that nominations be closed, seconded by W. Dollhopf, motion passed. G. Aubrecht moved that the slate of candidates be elected as presented, seconded by Barney Taylor, and motion passed by voice vote. B. Clemens pointed out that members should seriously consider serving as members of the executive committee in the future as this can lead to becoming an officer in the national organization.

G. Aubrecht announced that the SOS/AAPT web site is up and operating and information about our meetings and activities can be found there. He also asked what could be done to attract more graduate and undergraduate Physics majors to our meetings. Some suggestions were to have professors invite their students to the meetings, especially when the site is close by and to possibly have members bring a student a meeting at no charge.

F. Thomas introduced A. Ross of Sinclair Community College to award the door prizes. Afterwards J. Sullivan suggested that the membership show by round of applause our appreciation to F. Thomas and A. Ross for hosting today's meeting. Directions to the workshop locations and the two-year college meeting were then given. Meeting adjourned at 2:05 PM.

## **William Kuhlman**

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**From:** William Kuhlman  
**Sent:** Monday, May 03, 1999 6:11 PM  
**To:** 'ploughe@mps.ohio-state.edu'  
**Subject:** RE: SOS/AAPT Summary

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**From:** William Kuhlman  
**Sent:** Monday, May 03, 1999 6:07 PM  
**To:** 'mggrote@cc.owu.edu'  
**Subject:** SOS/AAPT Summary

### OHIO

The spring 1999 meeting of the Southern Ohio Section of the AAPT was hosted by the Physics Department of Sinclair Community College in Dayton, Ohio on Saturday, April 24, 1999. Arthur Ross, Fred Thomas, and colleagues hosted us in fine style, including a very nice breakfast bar during registration.

Guest speaker Dr. George Mathew from Northern Kentucky University talked on the "Socratic Method of Teaching Introductory Physics". He presented each of us with a complimentary copy of volume one of his Socratic Physics Workbook on Mechanics and gave us a guided tour through some of the text to illustrate the approach of taking a large problem and breaking it into short manageable components by asking one leading short question after another. Eventually the students come up with a solution from the leading questions on their own and this builds self-confidence.

Keynote speaker Alan Van Huevelen, Physics Education Research Group, Ohio State University Physics Department, talked about "Playing Physics Jeopardy and Other Fun Physics Activities". The other fun activities include Estimation Physics, Ranking Task Physics and Experiment Problem Physics. These and other new types of Physics questions and problems can help students learn the conceptual and procedural knowledge of Physics which will better prepare them for the future workplace. We each received a information packet to illustrate the workplace needs, objectives, and proposed learning system based on the above information. The packet included example questions which called the students to reason effectively about physical processes with or without math, apply this reasoning to solve complex problems with understanding, and learn to work effectively in groups.

In the afternoon Alan Van Heuvelen, Leith Allen, Kathy Andre, and Xueli Zou presented a workshop on "Inquiry Learning" and Fred Thomas presented a workshop on "Calculator Based Control Systems".

The contributed papers are listed below. Our next meeting will be a joint meeting with OS/APS on October 8-9 at Wright State University.

#### Contributed Papers

"The Motive Force of Convection," Bill Giles

"Studying Concepts of Quantization and the Photon," Thomas J. Kassebaum, Ohio State University.

"Student Concepts of Quantization and the Photon," David B. May, Ohio State University

"Building a paper and pencil questionnaire about Quantization and the Photon," Gordon J. Aubrecht, Ohio State University.

"Student Comments on cooperative Learning Benefits," Kathleen M. Andre, Ohio State University.

"The Use of the Internet in Astronomy Classes," Lori Cutright, Sinclair Community College.

"Power Brake Booster Lab," Byron C. Hall, Sinclair Community College.

"Kinematics and Work-Energy Labs Using a CBL Control System," Fred Thomas, Sinclair Community College.

Bill Kuhlman, Section Secretary



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