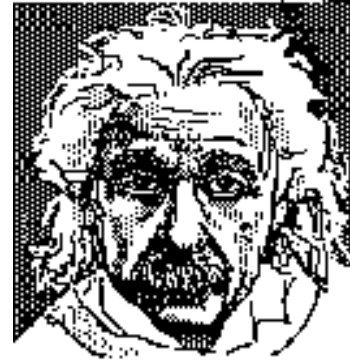


Volume 17, Number 2

The Illinois Physics Teacher



isaapt.org Fall 2005

Message from the President

Dear Fellow Physics Teachers:

It has been a great privilege and honor to be the President of the Illinois Section of the American Association of Physics Teachers this year. Our Spring meeting brought together high school and college faculty at my own institution, and allowed for us to have a wonderful Student Research Symposium.

One of the recommendations that came from several meetings we have held to discuss teacher recruitment and retention was that we do more at our own meetings to bring high school teachers back to our meetings, and to make these meetings more useful to them. To that end, the workshops held at the Spring's ISAAPT meeting were aimed at high school teachers. We are currently exploring other ways that we can be of service to in-service high school physics teachers, whether they teach physics full-time, or whether they teach one class. To that end, it looks like the upcoming Fall meeting, hosted by Riverside-Brookfield High School, will be encouraging us to share our best teaching ideas in a different way. I look forward to attending this meeting, and to seeing what each of my high school and college colleagues are doing in their own classrooms.

I would like to end my presidency by reiterating my goals from the beginning: I see as the over-arching goal of this organization the

advancement of physics in the state of Illinois, in all educational venues. This means we need to be constantly re-evaluating how well we are serving all of our students, even in the informal learning settings we sometimes find ourselves in; we should be working to better support high school science teachers who teach physics, as well as helping to recruit talented teachers; we should be working to help develop and maintain networks of high school and college teachers in regions around the state, as support and for curriculum sharing; we need to be supporting our college faculty who are interested in this educational mission, and helping them to become better teachers as well. Some of these tasks we do better than others at the present time, but no matter how good a job we do, we can always do better still! It is my challenge to each and every one of us to improve upon the great job we already do.

Respectfully submitted,

Dr. Kimberly A. Shaw,
President of ISAAPT for 2005
Associate Professor and Chair, Department of
Physics
Southern Illinois University Edwardsville

FUTURE ISAAPT MEETINGS

- Fall 2005 – October 28, 29 - Riverside Brookfield High School, Riverside
- Spring 2006 – April 7,8 - Illinois Central College, Peoria
- Fall 2006 – Rock Island High School (Tentative)
- Spring 2007 – Highland Community College (tentative)

NOMINATIONS FOR OUTSTANDING HIGH SCHOOL PHYSICS TEACHER SOUGHT

Each school year the Illinois Section of AAPT is pleased to receive nominations for outstanding high school physics teachers in the state. Fellow teachers and school administrators who are aware of exceptional performance and enthusiastic student response are encouraged to fill out the online nomination form found on the ISAAPT website. The person who is nominated will be notified and asked to fill out the online candidate information form. Please note that the deadline for receiving nominations is December 1, 2005. The teacher who is selected will be notified and presented with the award at the Spring 2006 meeting of the Section.

CPDU'S AVAILABLE AT FALL ISAAPT WORKSHOPS

Continuing Professional Development Units (CPDU's) will be available to in-service high school physics teachers who attend and participate in the workshops at this fall's ISAAPT meeting at Riverside-Brookfield High School. Carl Wenning of Illinois State University has registered ISAAPT with the Illinois State Board of Education as an official service provider.

Michael Kennedy Receives Outstanding High School Teacher Award



Michael Kennedy receives the Outstanding High School Teacher Award from Diana Roth. (photo courtesy of David Renneke)

During the Friday evening banquet at the Spring meeting the Outstanding High School Teacher Award was presented to Michael Kennedy of Neuqua Valley High School, Naperville, Illinois

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ISAAPT
Newsletter
Illinois Section
of the
American Association of Physics Teachers

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CALL FOR NOMINATIONS

Nominations are being sought for ISAAPT's Distinguished Service Citation. The distinguished service citation recognizes outstanding contributions to the field of physics teaching in the state of Illinois.

GUIDELINES AND PROCEDURES

1. **Purpose:** The purpose of the distinguished service citation shall be to recognize outstanding contributions to the field of physics teaching in the state of Illinois. Special recognition shall be given in the areas of:

- * leadership of colleagues and students through physics teaching
- * professional contributions to section activities through contributed papers, workshop presentation, committee service, or elective office
- * distinguished service at the nominee's institution.

2. **Eligibility:** A candidate shall have taught physics at an accredited high school, two-year or four-year college, or university in the state of Illinois for a period of at least five consecutive years.

3. **Letters of nomination:** At least two letters must be received giving evidence of outstanding contribution to physics teaching. These should be written by other teachers of physics. At least one letter should be written by an individual from outside the nominee's institution.

4. **Selection:** Selection shall be made by a committee designated for that purpose. The Selection Committee reads all letters of nomination. The Committee may seek additional information from sources it deems appropriate in making a selection. The name(s) of the Committee's choice(s) shall be given to the ISAAPT Council before the Spring Meeting. Approval by the Council makes selection final.

5. **Nature of award:** The extent and nature of the award shall be determined by action of the ISAAPT Council. It may be a check, plaque, or some other appropriate token of recognition. In addition, Council determines the degree to which publicity will be provided about the citations. The nature of

this award will be included in the annual announcement which initiates this procedure.

Mail or e-mail your nomination to:

Charles Schulz
Physics Department
Knox College
Galesburg, IL 61401
(309) 341-7397
cschulz@knox.edu

PAPERS AND PRESENTERS AT THE SPRING MEETING AT SIU-E

Invited Talks

Teaching the Current Generation of Students in the World Year of Physics, Kathy A. Harper, Physics Education Research Group, The Ohio State University

Photonics at SIUE, Abdullatif Hamad, Department of Physics, Southern Illinois University Edwardsville

Exploring the Nanoworld, Eric Voss, Department of Chemistry, Southern Illinois University Edwardsville

Contributed Papers

Correlation of Torque Sensitivity and Magnetic Hysteresis to Sensor Diameter in ESR420. Jacob R. Hoberg, Daniel K. Pratt, Jason T. Orris, and Mark S. Boley, Western Illinois University, Macomb, IL 61455

Effects of Quenching Medium and Cooling Rate on Torque Sensitivity in D-2. Daniel K. Pratt, J. Matthew Kerr, Jason T. Orris, and Mark S. Boley, Western Illinois University, Macomb, IL 61455.



Kathy Harper, The Ohio State University, *Teaching the Current Generation of Students in the World Year of Physics*. (photo courtesy of David Renneke)

Use of the Magnetic Force Microscope (MFM) to Investigate Domain Wall Parameters in High Chromium Content Steels. Matthew W. Beckner, Jacob R. Hoberg, Gregory M. Sollenberger, and Mark S. Boley, Western Illinois University, Macomb, IL 61455.

Deconstructing Huygen's Principle. Erick Blomberg, Bradley University, Peoria, IL 61625.

Novel Restructuring of Annealed Ag Films on Si (111). Steven Binz, D. C. Ludois, and K. R. Kimberlin, Bradley University, Peoria, IL 61625.

Reinforcing Energy Conservation. Lenore Horner, Southern Illinois University Edwardsville, Edwardsville, IL 62026.

What Would You Call That? Dave Sykes, Lincoln Land Community College, Springfield, IL 62794-9256.

Europium Doped Silicate Glass Laser. Amy Winkler and Abdullatif Hamad, SIUE, Edwardsville, IL 62026.

Presenting the Free Online Concept Inventory Analyzer (FOCIA). Joseph Beuckman, Scott Franklin, and Rebecca Lindell, Southern Illinois University Edwardsville, Edwardsville, IL 62026.

Design and Construction of a Trebuchet. Christopher Petta, Jauhar Khalid, Ben Morhardt,

Chris Williams, Nate Schumaker, Highland Community College, Freeport, IL 61032.

Flinging the Engineering Program into the Future. Jauhar Khalid, Chris Petta, Ben Morhardt, and Nate Schumaker, Highland Community College, Freeport, IL 61032.

Numerical Simulation of Thermal Conductivity in Nano-Scale Silicon Thin Films. Xavier Lange, Jie Zou, Eastern Illinois University, Charleston, IL 61920.

The Formation of Domain Walls with Striped Symmetry in Submonolayer Pentane and Hexane on Graphite. Cary L. Pint and M.W. Roth, University of Northern Iowa, Cedar Falls, IA 50614.

Pair Creation Process in Supercritical Fields. Kevin Cooley, P. Krekora, Q. Su and R. Grobe, Intense Laser Theory Unit, Illinois State University, Normal, IL 61790-4560.

Ensemble vs. Frequency Averages for a Random Scattering Medium. Matthew Narter, S. Menon, Q. Su and R. Grobe, Intense Laser Theory Unit, Illinois State University, Normal, IL 61790-4560.

Experimental Studies of Light Scattering in Milk. Sawyer Campbell, G.H. Rutherford, B.K. Clark, Q. Su and R. Grobe, Intense Laser Theory Unit, Illinois State University, Normal, IL 61790-4560.

Extended Diffusion Theory for Light Scattering in Milk. Trisha Blood, S. Menon, Q. Su and R. Grobe, Intense Laser Theory Unit, Illinois State University, Normal, IL 61790-4560.

Reconstruct Embedded Images using Reflected and Transmitted Light. Kimberly McGill, Q. Su and R. Grobe, Intense Laser Theory Unit, Illinois State University, Normal, IL 61790-4560.

Transmission of a Turbid Medium between Mirrors. Rebecca Wenning, Q. Su and R. Grobe, Intense Laser Theory Unit, Illinois State University, Normal, IL 61790-4560.

The Condition Of Illinois Physics Teacher Education Programs. Carl Wenning, ISU; Kimberly Shaw, SIU-Edwardsville; Ken Mellendorf, ICC; Dave Sykes, LLCC.

Fourier Analysis, Reflection and Quantum Diffusion Approaches for Undergraduates. David H. Kaplan, Southern Illinois University Edwardsville, Edwardsville, IL 62026

Problem-Solving Isomorphs. Tom Foster, Southern Illinois University Edwardsville, Edwardsville, IL 62026-1654.

Workshops

Waves and Color - Mostly on the Cheap, Ann Brandon and Debbie Lojkutz, Joliet West High School

Photoelectric Effect, Mark Schoeber, John Burroughs High School

Inquiry Based, In-class Astronomy Activities with Hands-on Equipment, Rebecca Lindell and Tom Foster

PHYSICS TEACHERS ATTEND SUMMER WORKSHOPS

Three workshops were held this summer for in-service high school physics teachers that have come to our attention:

A professional development workshop for high school teachers of physics in west central Illinois was held from June 13th through 17th at Western Illinois University. The project, called "Improving the quality of high school physics teaching in west central Illinois," was funded by the IBHE as part of the NCLB program. The coordinators were Dr. James Rabchuk from the Department of Physics and Dr. Don Powers from the Department of Education. Twenty-nine teachers of physics participated in the workshop, which focused on incorporating into the teaching of physics the new capabilities of Vernier's Lab Pro software (v. 3.3) to analyze motion

captured by a digital camera (in video mode) frame-by-frame. Each participant in the workshop received a copy of Vernier's software, which comes with a district-wide license for use, along with a Kodak (CX7230) digital camera and a stipend for travel and time. In addition, workshop participants visited Six Flags over St. Louis with cameras and several laptop computers in tow for motion capture of a number of the rides for later analysis.

The workshop focused on ways to incorporate video motion analysis in the teaching of the fundamental concepts involved in describing and measuring motion, including difficult-to-teach concepts related to setting a measurement scale and establishing an appropriate coordinate system. Workshop presenters demonstrated how the technology could be used to describe not only 1 and 2 dimensional particle motion with constant acceleration, but also rotational, harmonic and wave motion. The participants produced a number of lesson plans related to the analysis of motion, and they and their students will have the opportunity to use these lessons and the technology at the newly refurbished SPIL (Secondary Physics Instructional Laboratory) at WIU during the course of the upcoming semester.

The fifth and final year of the AAPT/PTRA Rural Institute was held at University High School at Illinois State University from June 20-24. PTRAs Tom Holbrook (University High School, Normal) and Laura Nickerson (Illinois Mathematics and Science Academy, Aurora) presented five days of subject matter relating to energy, impulse, and momentum. Nineteen rural teachers, mostly crossover teachers working in small districts throughout Central Illinois, were in attendance at this workshop. Carl Wenning served as the Regional Rural Coordinator for this project. Since 2001 some 50 rural teachers participated in anywhere from one to three summer workshops.

A Modeling Method of Instruction for Physics workshop was presented at Dominican University in River Forest, IL, from July 6-29. Funding to support this workshop came from an Illinois Board of Higher Education's Improving Teacher Quality grant. The workshop leaders were Jim Stankevitz of Wheaton Warrenville South High School and Kristen Guyser from Maine Township High School. Assisting were Tom Holbrook of University High School in Normal, and Tom Todd of Wheaton

Warrenville South High School. Dr. Barney Ricca of the DU Department of Curriculum & Instruction was the site facilitator. The workshop, part of the Chicago ITQ Science Project directed by Carl Wenning of Illinois State University, is expected to continue next summer. If interested in participating in this workshop, keep an eye on the Project's website at

http://www.phy.ilstu.edu/pte/mm_dominican_2005.html.

MODELING METHOD OF PHYSICS IN ILLINOIS

Illinois State University has set up a [modeling.physics] listserv for high school physics teachers employing the Modeling Method of Instruction. All Illinois modelers and interested others are welcome to subscribe to this moderated discussion group. To subscribe, go to the following URL:

http://www.phy.ilstu.edu/mailman/listinfo/modeling_physics.

A Modeling group, part of the Chicago ITQ Science Project, will be meeting during Friday morning and Saturday afternoon at the Riverside-Brookfield section meeting October 28-29. Interested high school physics teachers are invited to stop in to learn more about the Modeling method. Contact Carl Wenning at wenning@phy.ilstu.edu for details.

PHYSICS TEACHERS NAMED STATE FINALISTS

Two Illinois physics teachers have been named finalists for the *2005 Presidential Awards for Excellence in Mathematics and Science Teaching*, the nation's most prestigious honor for a K-12 science teacher. Tom Holbrook from University High School in Normal, and Phil Sumida from Maine Township High School West in Des Plaines have been named two of the three Illinois finalists for national recognition. Two high school science teachers are chosen to be recognized from each state in the Union every other year.

The Presidential Award recognizes exemplary K-12 teachers for their contributions in the classroom and to their profession. Excellent teachers perform miracles everyday with little or no recognition. The Presidential Awards demonstrate the value and appreciation the nation has for the teaching profession. The award winners will be announced during the spring. Awardees receive a \$10,000 cash prize.

The Presidential Awards for Mathematics and Science Teaching were established in 1983 by an Act of Congress and are administered for the White House by the National Science Foundation. Each year the program recognizes outstanding mathematics and science teachers from across the United States and four U.S. jurisdictions for their contributions in the classroom and to their profession. In addition to honoring individual achievement, the goal of the Awards is to expand and exemplify the definition of excellent science and mathematics teaching. Awardees serve as models for their colleagues, inspirations to their communities, and leaders in the improvement of mathematics and science education.

Tom Holbrook was honored by the ISAAPT with the 1997-1998 Illinois Outstanding High School Physics Teacher Award. Congratulations to Tom and Phil on jobs well done!

ISAAPT AND PHYSICS TEACHER EDUCATION PROGRAMS

In a never-ending desire to enhance physics education in Illinois, the ISAAPT has made efforts to determine the status and needs of Physics Teacher Education (PTE) programs in the state. On October 14-15, 2004, at Bradley University, a workshop dealing with Physics Teacher Preparation, Recruitment, and Retention was conducted. One of the purposes of the workshop was to identify PTE programs in need of assistance and to determine how best to provide assistance using highly experienced PTE coordinators. A report on the work performed can be found at <http://www.phy.ilstu.edu/pipeline/>.

At the fall 2004 meeting of the ISAAPT at Bradley University, as recommended by attendees of the aforementioned workshop, an ad-hoc

committee was formed for the purpose of assessing PTE programs in Illinois. The task of the committee was to develop, disseminate, and tabulate a survey that was to be sent to the 23 Illinois institutions that have such a program. The survey was created during the Spring of 2004 and electronically sent to the 23 PTE programs. Only seven (7) programs responded in time to make a report at the spring meeting of the ISAAPT.

Some notable findings from the survey for the 7 responding institutions are as follows:

- Ten (10) certified and endorsed high school physics teacher education majors graduated during the 2003-2004 school year.
- Seven (5 from one school) certified and endorsed high school physics teacher education majors are expected to graduate during the 2004-2005 school year.
- 34 (26 from one school) high school physics teacher education majors currently enrolled at the freshman, sophomore, and junior levels.
- Only one institution of the seven (7) felt that it was large enough for good student interaction and that the program had grown over the last five (5) years.
- Although 6 of the 7 schools responding are ISBE accredited, only 2 felt that the most important science methods course surpasses the minimum needs of PTE majors and only two felt that the staff are more than adequate to meet the demands of PTE courses and PTE students.

Copies of the survey and complete tabulation of the seven schools responding can be obtained from Dave Sykes at Lincoln Land Community College [dave.sykes@llcc.edu or at (217) 786-2404].

SECTION REPRESENTATIVE REPORT ILLINOIS SECTION OF AAPT September 8, 2005

Greetings Fellow Illinois Physics Teachers,

An august subgroup of the AAPT convened from the 6th through the 11th in the month of the same name, 2005. The University of Utah, in Salt Lake City, provided facilities for the summer national meeting and access to stunning visual treats that ran the gamut from: The Salt Flats, Great Salt Lake and the attendant state capitol that shares its name; to the majestic Wasatch Mountains looming as sentinels to the east.

Sunday evening, August 7th, from 5-6, was the Section Officers Exchange. The primary motivation of this particular hour was to inform and rouse the rabble. This was particularly successful on both accounts in considering the recommendation put by the executive board to halve the number of national meetings. Allow me to invite you to the highlights of what transpired:

- I. The top of Page 10 of the Summer 2005 edition of the Announcer contains the appetizer to the most substantial food for thought at the meeting...elimination of the winter meeting to be replaced with regional or topical ones that would expect to draw fewer members. This was motivated by a dedicated task force recommendation to the Executive Board as a measure to produce meetings that were more financially viable.
- II. Winter meetings for 2006 through 2008 that have already been awarded and planned, will convene. The first to be eliminated would be the one that would normally be scheduled for 2009.
- III. Alternate years, commencing with January 2009, will see Themed Conferences (ergo, integrated meetings with other societies, strand activities within another societies meeting, co-sponsoring sessions within another societies meeting and sponsoring regional AAPT meetings) and Collaborative Activities (e.g. upper-level/graduate physics

course offerings, what defines a physics major, integration of contemporary physics content into introductory physics offerings, or teacher preparation) as the respective working titles for these replacement events.

- IV. Subgroups of three to five members discussed these revelations with a good measure of self-interest to augment the bigger topic.
- V. Data was collected from the forum to present the suggested modification in the form of a vote. Greater than 80% of those that cast their opinion were in favor of dismissing the recommendation and retain the current format of two annual meetings. Yours truly went enthusiastically with the majority in this measure.
- VI. A member of the Executive Board assisted in quelling the anxiety and contentious air in closing this session by notifying us that they fund speakers to section meetings. I hope Illinois will be a recipient of this gesture going forward.

The subsequent two hours was scheduled to provide the umbrella to cover the Section Representatives meeting. The AAPT will be entering its 75th anniversary as institution. Items of import include:

- I. Send a list of officers to the national meeting and check to see if each Section is up to date. *Are we?*
- II. **PER** (Physics Education Research) Journal is available as an online newsletter in September, 2005. <http://prst-per.aps.org>
- III. There is a search for a replacement to replace Bernard Khoury as Executive Officer of the organization. Bernie is stepping down after a long tenure in that capacity.
- IV. AAPT has endorsed and recommended the statement on Cosmology and Evolution found on page 9 of the Summer 2005 Announcer.
- V. Senior Physicist and Book Editor positions are begging to be filled at the National Offices.
- VI. World Year of Physics has been successful in bringing increased visibility to our chosen profession. Congratulations to all of

us that have continued to help that transpire at what ever level you have succeeded at.

- VII. Innovative High School Physics Teacher Grants are available in two nice packets that may prove easy to find funding: \$500 to examine state standards; \$500 for a member with \$200 to assist in defraying the cost to attend and present at a meeting.
- VIII. Teacher Prep Grant also is available for Section Meetings. I believe we have already taken advantage of this last academic year.
- IX. Increasing the card carrying, dues paying membership from around 10,000 to 11,000...Help recruit at all levels.
- X. For online teaching resources, check www.comPadre.org. It is a quite sweet suite of delectable treats to accompany your current food for thought. There should be something to enrich all of our palates, ultimately to the benefit of our students.

While yours truly also attended the 2-year College Physics Teachers subcommittee, I will not bore the majority that do not find themselves lucky enough to be one...only joking...just seeing if you were still perusing this missive. The one item I will stress is that I volunteered to head a session on **Physics and Sports** at the Syracuse University National Meeting next July 22-26. Upstate New York is where I was reared from middle school through undergraduate degrees at SUNY-Oswego. Hence, I am trying to bring something back to that community and hope that perhaps one or more of you may be willing to assist me in showing the East Coast some Midwest savvy regarding the subject matter. If interested, please let me know personally. Yes, I plan on giving one on either Ice Hockey or Weight Training. I don't want to strong-arm anyone...

Thank you again in entrusting me to bring you all the news I felt like reporting. Fortunately, it was the lions' share of what I remember...junior moments!

Respectively submitted,
Eric Peterson

Minutes of the Spring 2005 ISAAPT Executive Council Meeting
 Saturday, April 9, 2005
 Southern Illinois University Edwardsville
 Room SL 1218

The Council was called to order at 7:15 a.m. with Kimberly Shaw presiding. In attendance were Bill Hogan, Rob Mason, Eric Peterson, Diana L. Roth, Troy Gobble, Roger Reeves, Chris LaRoche, Dave Renneke, Ken Mellendorf, Benjamin L. Brown, Brian Davies, Ann Brandon, Debby Lojkutz, Ray Bugayong, and Carl Wenning. The following topics were addressed:

Secretary/Treasurer's Report: Carl noted that the minutes from the autumn meeting had been approved online, and had also been published in the spring edition of the *Illinois Physics Teacher*. He provided copies of the minutes as well as a written Treasurer's report. He noted that the ISAAPT continues to do well financially with a current balance of \$4,684.52. This balance includes costs associated with the latest issue of the *Illinois Physics Teacher* and the Outstanding High School Physics Teacher award and plaque. Carl further noted that he is still working on incorporation, and seeking insurance for the Section. He suggested that savings on reduced distribution of the newsletter (see below) would partially offset incorporation and insurance costs. It was agreed that the ISAAPT attempt to increase active membership roles by recruiting high school physics teachers, many of whom have never heard about the ISAAPT. Council members with high school physics teacher e-mail addresses are asked to send them to David Renneke. It was further agreed that the president, president-elect, past-president, secretary/treasurer, and section representative would constitute the legal fiduciaries of the Section as required for incorporation. Carl will provide an update through the listserv shortly on incorporation and insurance matters, and ask for approval at that time to spend the requisite amounts for achieving the desired goals.

Section Representative's Report: Eric Peterson provided a written report from the Albuquerque winter meeting. He noted attempts to increase membership presence at and participation in the work of national meetings, interjected information about the Illinois high School Teachers Pipeline Report, and noted that Alaska has been accepted as a new section of the AAPT, and provided information about an apparatus competition. The full Section Representative's report can be found on the Section's website.

High School Committee Report: Ann Brandon provided a report from the AAPT High School Committee. She noted that the committee's publications have finally made it through the publication board, and booklets are now available relating to high school teachers and lab activities in the high school. Efforts are still being expended on updating a new teachers packet first initiated some 30 years ago. Individual copies of publications are free to members online via download; single copies may be acquired by request directly to the AAPT. The usual high school activities continue to do well; the recent photo contest, for instance, had some 500 entries. The video contest is similarly successful. Both have rules posted on the AAPT website. The PTRA program continues to do well; the HS committee is being limited in the number of workshops it may present at national meetings (as are other committees) as a way to limit costs. Ann has been formally appointed to the HS Committee starting with the Salt Lake City meeting.

Publicity Chair, Section Publicist & Webmaster Report: Dave Renneke noted that things are "back on track" with getting Section reports included in *The Announcer*, even though there is typically a six-month delay in the getting the information published. Operations with the Section's web page continue to move along well.

Newsletter Editor Report: Roger Reeves noted the recent publication of the *Illinois Physics Teacher*. He indicated that it is currently being distributed in hard copy to about 450 addresses. He further noted that an effort is being undertaken to reduce the number of copies so that they go only to recent dues-paying members or those who indicate a desire to be on the mailing list. Carl noted that only about 20 or so non-dues paying members have made requests to remain on the mailing list. This should reduce the hard copy distribution to about 100 or so copies. Carl will reduce the membership list to include only those who have been involved with the Section in some way during the past 5 years, as well as those who have requested to remain in the database. Dave Renneke, however, will continue to maintain a complete e-mail list. It was agreed that teacher educators and others with e-mail contacts for high school physics teachers should send their listings to Dave so that he can increase the size of the e-mail database. Carl will conduct a mailing using a "brightly colored postcard" during mid-September to promote membership in the ISAAPT among the 450 or so Illinois high school physics teachers. The postcard will note the autumn meeting, and direct readers to the Section's webpage. Lastly, Roger indicated that he would be retiring at the end of the next school year and therefore will stepping down as newsletter editor following the autumn issue. A new newsletter editor will have to be found.

Outstanding HS Teacher Award Report: This year's recipient was Michael Kennedy. Diana Roth noted that the selection process had again worked quite well. The process, she noted, has moved from paper, to e-mail, to the Section's web page over the past three years as necessitated by the success of the program. Working through Regional Offices of Education, 15 new nominations were received this year. Diana, too, noted that she would now be stepping down from chairing this position, and asked that a new volunteer be appointed. Several names were brought up (CP, SW, FZ) and Kimberly will pursue getting a volunteer from this listing.

Committee for Distinguished Service Citation: Roger Reeves and Carl Wenning noted that no nominations had been received to date. They encouraged nominations of worthy individuals.

SIUE Meeting Report: Kimberly Shaw noted that the Dean of the College of Arts & Sciences had provided \$1,300 in support for the meeting, and that this included \$225 for the Student Research Symposium awards. There will be a total of 15 student papers presented at this meeting.

Ad Hoc Committee on High School Physics Teachers: Carl Wenning briefly reported on the success of the autumn special session, and noted that the work of the committee continues with an ongoing survey of PTE programs. Carl indicated that high degree

of interest in the work of the committee has been shown by the AIP Statistical Research Center (Patrick Mulvey), PhysTEC (Ted Hodapp) and AAPT (Warren Hein). There will be an hour-long follow-up discussion during the morning events at the SIUE meeting.

Future Meetings: Troy Gobble noted that planning continues for the autumn section meeting at Riverside-Brookfield High School October 28-29, 2005. Leon Lederman has agreed to be the keynote speaker; he will focus on the Physics First initiative. There will be a special roundtable discussion dealing with the norms of high school physics teaching; council members in teacher education or high school teaching especially will be asked to participate in this meeting in a significant way. (It was generally agreed - but not acted upon - that spring Section meetings henceforth should focus on scientific research and that the autumn section meetings should focus on physics pedagogy.) The Riverside-Brookfield meeting will be a joint meeting with the Chicago section, and will incorporate the 2005 Year of Physics theme in some way. The spring 2006 meeting will be held at Illinois Central College in East Peoria with Ken Mellendorf hosting. He hopes to incorporate a theme attractive to high school physics teachers as well. Eric Peterson offered to host the spring 2007 meeting as a possible joint Section meeting with Wisconsin; this new offer was accepted. The fall 2006 meeting at Rock Island with Gary Wolber is contingent upon the Section having the appropriate liability insurance in place at the time of the meeting.

Adjournment: The meeting was adjourned at 8:22 a.m.

Respectfully submitted,
Carl J. Wenning, Secretary/Treasurer

P.S. In post conference action on September 12, 2005, the Board agreed to the purchase of liability insurance.

TREASURER'S REPORT FALL MEETING 2005

Date	Transaction	Payment	Deposit	Balance
7 Apr 05	Prior Balance			\$4,684.52
18 Apr 05	Spring Meeting Registrations/Workshop Fees/Meals		\$1,795.00	
18 Apr 05	Spring Meeting Dues Collected		\$205.00	
various	Non-meeting Dues		\$25.00	
7 Jun 05	Southern Illinois University (meals, honorarium)	\$1,306.74		
8 Jun 05	Journal Printing Co (underpayment for spring issue of IPT)	\$24.00		
	Subtotals/Net	(\$1,330.74)	\$2,025.00	
	Current Balance			\$5,378.78

Total special pre-session budget: \$500.00 (AAPT grant) + \$70.00 (workshop registrations) = \$570.00 (Fall 2004)

Total special pre-session balance: \$570.00 - \$275.45 = \$224.55