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AETS AETS Newsletter

Vol. 35, No.3

Spring, 2001

Editor: Jeffrey Weld, Department of Biology, University of Northern Iowa

President's Message

Update and Reminders

Molly Weinburgh, President

I took the opportunity in the Winter 2000-01 AETS Newsletter to remind the membership about the importance of getting involved in the many levels of AETS. Because much of the work of any organization takes place in committees, I suggested that you might want to become involved at that level. Several of you took the time to communicate with one of the committee chairs and have been included in email correspondences of the committee. These email discussions are very important in helping to establish the recommendations that come from committees. I want to thank you for coming forward and adding your wisdom to the discussions. I also want to encourage those of you who are still unsure of how to "become more active" to reach out to a committee chair or begin establishing a forum. These are ways that your voice can be heard!

As we move further into the year, this is a good time to remind you of two upcoming events: the summer AETS Board meeting and the deadline for proposals for the January 2002 annual meeting. The Leadership Team meets twice a year to conduct the business of the organization. One of these is in conjunction with the annual meeting in January and the other is in the summer.

Summer Board Meeting. The Leadership Team will conduct the summer Board Meeting from June 21 to June 23 in Utah. During this meeting, the committee chairs will report on the work that has been done since January. Many of them will have motions to bring before the Board for vote.

All of the committees have been very busy in the five months since our last meeting. You will be able to read the minutes of the meeting but I want to take this time to highlight some of the visible committees. However, I suspect that you are not aware of all the hours of hard work your Leadership Team, committee members, editors and editorial/review board really do. Since January the slate of nominees for next year's officers has been established, extensive work has been done toward the 2002 annual meeting, preliminary work has been done toward the 2003 and 2004 annual meetings, communication with Kluwer and with publication editors has continued, nominations and regional directors have been reviewed, the ByLaws have been edited, and what has been happening since we all met in Costa Mesa.

***One of the
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meeting)
sessions***

mer Board Meeting from will report on the work bring before the Board

last meeting. You will be highlight some of the visible committees. your Leadership Team, January the slate of has been done toward 2003 and 2004 annual continued, nominations and regional directors what has been happen-

(continued next page)

President's Message (cont.)

In addition, the Board will use part of the time to examine the suggested edits to the ByLaws. The suggested edits are a result of two years of discussions conducted at the Town Meetings held during the annual meeting. Any changes will have to be voted on by the membership. The AETS Newsletter and ListServ will be used to communicate this information to all members. The Board will also begin work on editing the Mission statement. Again, the members will be kept aware of this through the AETS Newsletter and ListServ.

Proposal Deadlines. For many of us, the annual meeting is the highlight of the year. We get to jump into the new year by attending AETS! If you are on the AETS ListServ, you received a message from Warren Dibiase in April reminding you about the submission deadlines for proposals. For those of you not on the ListServ, go to the AETS website (<http://www.aets.unr.edu/>) and you will find all the information. You have a June 15 deadline for paper submissions and a July 10 deadline for electronic submissions. I would like to encourage you all to submit!

As usual, you have several types of session formats from which to choose. One of the elements of AETS that many of us love is the great variety of the sessions. You may want to join with others who are doing similar research/teaching and submit a symposium. This is a great way to have multiple individuals represent varied perspectives on an important science teacher education issue. You may want to submit a poster so that you can have one-on-one conversations about your work with peers. Or perhaps you have some really interesting curricular materials, teaching strategies, etc. that you want to share with your peers through a demonstration. Or you may want to engage your peers during a session and feel the interactive session format is for you!! Contributed paper sessions are also an option for those of you who have research results or position papers.

The annual meeting will be in Charlotte, North Carolina. Mark your calendars!! I hope to see all of you in Charlotte where we can share concerns, successes, and questions.

Molly Weinburgh, AETS President

2002 AETS Annual International Meeting

The Mid-Atlantic Regional Unit and the City of Charlotte are proud to host the 2002 Annual International Meeting of the AETS. I would like to take this opportunity to invite each of you to mark your calendars and join is in Charlotte, North Carolina next January.

The 2002 AETS Annual International Meeting will be held at the Charlotte Marriott City Center January 10-13, 2002. The conference theme is Science Education: Financing Scientific Literacy for Global Success. The hotel is located in the heart of "Uptown" Charlotte, within walking distance of restaurants, nightlife and shopping. A flat rate of \$110 per night has been negotiated. The phone number of the Marriott is 704.333.9000. To ensure the conference rate, reservations must be received on or before December 1, 2001.

Charlotte is easily accessible with over 570 flights per day, direct and nonstop from Douglas International Airport, to over 150 cities. Seven (7) major carriers, USAirways (a major hub), United, American, Delta, TWA, Continental, and Northwest serve the Queen City. The airport is located less than a 20-minute ride to the "Uptown" area with shuttle/limousine services available at \$8.00 each way. USAirways is working with us to provide a reduced fare for AETS members travelling to Charlotte for the conference.

Events at the conference will include, but are not limited to the following:

- A reception on Thursday, January 10th, from 6:00 p.m. - 9:00 p.m., that will feature a Southern Reception Buffet, cash-bar, and entertainment by the Band of Gold--an oldies band playing your favorite tunes from the 1950's and 1960's.
- Tours and off-site events including the possibility of a cultural event at the Blumenthal Center for the Performing Arts.

The "official" website for the 2002 AETS Annual Meeting in Charlotte NC is up and running at
<http://chemweb.chem.pitt.edu/aets2002>

The site contains information and links on:

- Charlotte Douglass International Airport
- Ground Transportation
- Charlotte Marriott City Center (Host Hotel)
- Nearby Restaurants and various services
- Local News and Entertainment
- General Map of the Greater Charlotte area.

The site will be updated as more information is available including, but not limited to, planned events and attractions and a preliminary schedule. You will be notified via the AETS listServ when updates are added.

The 2002 AETS proposal form is enclosed on **page 4** of this newsletter, and can also be accessed from both the "official" website and the AETS home page @ <http://www.aets.unr.edu>. Program Coordinators are Cliff Hofwolt and Kathy Cabe Trundle.

There are many reasons to visit the city of Charlotte- The number one reason however, is to participant in the 2002 AETS Annual International Meeting. Contact Warren DiBiase at 704.687.3729 or wjdibias@email.uncc.edu if you have any questions

SAETS Fall Program

Mark your calendar now!

The Southeastern Association for the Education of Teachers in Science will be held at the Embassy Suites Hotel and Conference center at the University of South Florida, Tampa Florida on October 12th (p.m. - Registration and Reception) and 13th (actual conference sessions).

The Embassy Suites conference room rate is \$99 per night (each room will accommodate 1-4 people at no extra charge) which includes buffet breakfast and 2-hour Happy Hour for each guest.

For those who may wish to extend their stay (prior to or after the conference) the hotel will extend the same rates. For family and friends the hotel offers discounted fairs and limo service to Busch Gardens (about 5 minutes away). The Museum of Science and Industry (MOSI) including a full IMAX theatre is also about 2 minutes away. Lowry Park Zoo (with its manatee rehabilitation center) is about 10 minutes away and St. Petersburg and Clearwater Beaches are about 40 minutes away.

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Samford University, under a grant from the Pew Charitable Trust, has established a national center for documenting and evaluating the scholarship of problem-based learning (PBL) instruction. Undergraduate faculty are invited to submit applications for developing **Problem-Based Learning portfolios** that describe the implementation and assessment of PBL approaches in various science disciplines. Accepted applications are awarded a \$750 mini-grant, and portfolios are placed into an online PBL registry. Contact George Keller for more information at gekeller@samford.edu or 205.726.2033. Information and applications are available at www.samford.edu/pbl

<http://www.aets.unr.edu/>

- ✓ join the AETS Listserv
- ✓ view archived annual meeting proceedings
- ✓ view Standards for Science Teacher Educators
- ✓ view information on AETS publications
- ✓ join AETS!

Attention California AETS Members

We have worked with the conference chairs to have an AETS strand at the annual *California Science Teacher Association conference* in Palm Springs. We hope that this will be the start for stronger connections between AETS and CSTA and increased communications across the K-16 continuum. Ideally, we will be able to have an AETS strand at each CSTA meeting. Not only will this increase collaboration between teacher preparation and inservice teachers, it will also provide us with an opportunity to get together to discuss issues related to California science teacher preparation.

If you are going to CSTA, plan on joining us for dinner! Contact Laura Henriques in early October for details about the dinner (lhenriqu@csulb.edu or 562-985-5949).

Start thinking about a presentation you might want to do at next year's meeting, October 2002. We plan on sending in a group of presentations for a strand next year. Details will be available from Laura after the conference.

AETS Publications Information

Julie Luft, University of Arizona
Chair, Publications Committee

The AETS Publications Committee oversees several items of importance to AETS members regarding the Journal of Science Teacher Education (JSTE), affiliated journals, the AETS newsletter, and AETS sponsored documents. During the last year, the committee has been involved in a number of projects that directly impact the dissemination of knowledge in science teacher education.

JSTE Articles for Courses – If you are interested in including a JSTE article in your course readings, you can either work with your local bookstore/copy center or Michel Lockhorst at Kluwer to obtain permission to copy the article to include in your course readings. Michel Lokhorst can be contacted at michel.lokhorst@wkap.nl.

Indexes – The Publications Committee is working with Kluwer to get JSTE into the social science citation index and several international educational indexes. These indexes increase our readership and the pool of potential authors.

Monographs – The Publications Committee is interested in receiving proposals for AETS sponsored monographs. If you are interested in writing a monograph, guidelines for the process of submitting a proposal can be found on the AETS website or you can contact Julie Luft (luft@u.arizona.edu).

AETS 2002 PROGRAM PROPOSAL

2002 AETS Annual International Conference
Science Education: Financing Scientific Literacy for Global Success
Charlotte Marriott City Center

January 10-13, 2002

Provide the requested information exactly as you wish for it to appear in the program

Presenter Information (attach information for additional presenters on a separate sheet)

Name _____	Affiliation _____
Address _____	Work Phone _____
City _____	Fax Number _____
State, Zip, Country _____	Email _____

Session Information (descriptions appear below)

Type of Session (check one)

- Contributed Paper (30 min)
- Panel Symposium (60 min)
- Demonstration (30 min)
- Poster Presentation
- Interactive Session (60 min)
- Other (please describe) _____

Intended Audience (check all that apply)

- | | |
|--|--------------------------------------|
| <input type="checkbox"/> elementary | <input type="checkbox"/> high school |
| <input type="checkbox"/> supervision | <input type="checkbox"/> pre-service |
| <input type="checkbox"/> middle school | <input type="checkbox"/> college |
| <input type="checkbox"/> in-service | <input type="checkbox"/> informal |

Session Focus (check major emphases)

- Science Teaching
- Professional Development
- Science Assessment
- Science Content
- Science Program and Systems

- **All concurrent session rooms hold 50-60 people**
- **Audiovisual Needs – each room will be supplied with an overhead projector and screen.**
- Presenters in need of TV/VCRs or other equipment **must** make their own arrangements with the hotel (Ms. Tina Wright, Event Delivery Manager, 704. 358.6753 or tina.wright@marriott.com). Please note that the rental fee for this equipment is the responsibility of the presenter. It is suggested that presenters needing such equipment use the AETS L-Serve to contact other individuals needing a TV/VCR and share the cost.

Session Description

Session Title _____

Abstract (25 words or less)

Proposal

In 1500 words or less, describe the theoretical background of the presentation, the relation of this work to other efforts, the relevance of this work to science teacher education, and your plan for how the actual presentation would be structured. Include a bibliography. Reviews of the proposals will center on how adequately each of these components is addressed. Proposal quality as well as the desire to create a balanced program will be criteria for making final acceptance decisions.

Details on Session Information

- **Contributed Paper:** Presentation of research results, philosophical essay or position paper.
- **Demonstration:** Exhibition of curricular materials, teaching strategies, technological applications, etc.
- **Interactive Session:** Presenter initiates consideration of a topic with majority of time devoted to active audience participation (e.g., hands-on activities, small group discussions, etc.)
- **Panel/Symposium:** Presentation by multiple individuals representing varied perspectives on an important science teacher education issue. Opportunities for audience involvement.
- **Poster:** Visual presentation of work in progress with one-on-one conversations about materials.

Proposal Transmission Options

- **Electronic Option –** Prepare your proposal in your favorite word processing program. DO NOT use any formatting in your proposal. Please do not use fancy typefaces and fonts, boldface and italics, underlined words and justified paragraphs, and tabs and tables. Please double space paragraphs, capitalize titles and headings, and indent using the spacebar. Since reviewers will be using a variety of email systems, the simpler the proposal, the more efficient and effective the review process will be.

Type the requested information from the Program Proposal Form directly into your email message. Paste your proposal directly after the form data into the same email message. Please DO NOT send your proposal as an attachment. The subject line of your email should read: ***“AETS Proposal”***

Please send the entire message on or before July 10, 2001 to: **AETS2002@vanderbilt.edu** If you find it necessary to provide non-text information (i.e., graphs, tables, illustrations, photographs, etc.) you can fax such materials to the number listed below OR within the body of your proposal you can point the reviewer to the appropriate URL. Fax: 615.322.2291
Attention Cliff Hofwolt.

You will receive electronic notification of the Program Committee's receipt of your proposal. Email will also be used to inform you about the acceptance or rejection of your proposal.

- **Hard Copy Option –** Prepare FIVE (5) copies of your proposal attaching a completed Program Proposal Form to the front of each copy. Please send these copies along with two self-addressed stamped envelopes so it will be received by June 15, 2001 to:

AETS 2002 Program Committee
Attn: Cliff Hofwolt
Box 330, Peabody College
Vanderbilt University
Nashville, TN 37203

The Program Committee follows the same minimum safety guidelines as for NSTA functions:

<http://www.nsta.org/conv/safety.htm>

Program Coordinators: Clifford Hofwolt and Kathy Cabe Trundle

Examining Pedagogical Content Knowledge

Edited By:

**Dr. Julie Gess-Newsome
and
Dr. Norman G. Lederman**

*Published in cooperation with
"The Association for the Education of Teachers in Science"*

Kluwer Academic Publisher

\$70.00 Plus shipping and Handling

Examining Pedagogical Content Knowledge

Contents and Contributors

Acknowledgments. Foreword; *L. Shulman.*

Section I: Introduction.

1. Pedagogical Content Knowledge: An Introduction and Orientation; *J. Gess-Newsome.*

Section II: The Literature.

2. The Complex Nature and Sources of Teachers' Pedagogical Knowledge; *G. Morine-Dershimer, T. Kent.*
3. Secondary Teachers' Knowledge and Beliefs about Subject Matter and their Impact on Instruction; *J. Gess-Newsome.*
4. Nature, Sources and Development of Pedagogical Content Knowledge for Science Teaching; *S. Magnusson, et al.*
5. Domains of Teacher Knowledge; *W.S. Carlsen.*

Section III: Emerging Lines of Research in Science Teacher Education.

6. Assessment and Measurement of Pedagogical Content Knowledge; *J.A. Baxter, N.G. Lederman.*
7. Changing our Teaching: The Role of Pedagogical Content Knowledge in Elementary Science; *D.C. Smith.*
8. Reconceptualizing Secondary Science Teacher Education; *N.G. Lederman, J. Gess-Newsome.*
9. Pedagogical Content Knowledge and Co-Participation in Science Classrooms; *K. Tobin, C. McRobbie.*

Section IV: Impacts of PCK on the Development of Science Teacher Education Programs.

10. Constructing a Framework for Elementary Science Teaching Using Pedagogical Content Knowledge; *C. Zembal, et al.*
11. Incorporating Subject Matter Specific Teaching Strategies into Secondary Science Teacher Preparation; *M.L. Niess, J.M. Scholz.*
12. The TRIAD Approach: A Consensus for Science Teaching and Learning; *C.L. Mason.* Notes on Contributors. First Author Index. Subject Index.

Section IV: Cross-Cultural Perspectives on Science Teacher Education

9. A Meeting of Two Cultures: The Experience of Facilitating a Teacher Enhancement Project for Egyptian Science Teachers
Janice Koch, Hofstra University & Angela Calabrese Barton, Teachers College, Columbia University, USA
10. International Partnerships as a Means of Reforming Science Teacher Education: Bolivia, Chile, Venezuela, and the US
Jon Pedersen, East Carolina University, USA; Ron Bonnsetter, University of Nebraska, USA; Marilu Rioseco, Universidad de Concepcion, Chile; J. Mauro Briceno-Valero, Universidad de los Andes, Venezuela; Herman Garcia, Cochabamba Cooperative School, Bolivia; & James G. Cook, Universidad de los Andes, Venezuela
11. International Perspectives on Scientific Literacy: Implications for Science Teacher Education
Deborah Tippelt, University of Cologne, Germany; James G. Cook, Universidad de los Andes, Venezuela; Lyndee L. Smith, University of North Carolina, USA; Elizabeth McKinley, New York University; and Lilia Reyes Herrera, Colombia

Please note: The following books:
 ○ Order by _____ off
 ○ Order by _____ discount
 (see additional information on the back of this newsletter)

Science Teacher Education: An International Perspective

Edited By:

Dr. Sandra K. Abell

*Published in cooperation with
"The Association for the Education of Teachers in Science"*

Kluwer Academic Publisher

\$70.00 Plus shipping and Handling

Science Teacher Education: An International Perspective

Contents and Contributors

Section I: Introduction

1. International Perspectives on Science Teacher Education: An Introduction
Sandra K. Abell, Purdue University

Section II: Policy and Practice in International Science Teacher Preparation

2. The Development of Preservice Elementary Science Teacher Education in Australia
Ken Appleton, Central Queensland University; Ian Ginns & James Watters, Queensland University of Technology, Australia
3. Reform in Science Teacher Education in Italy: The Case of Physics
L. Borghi, A. De Ambrosis, & P. Mascheretti, University of Pavia, Italy
4. Science Teacher Preparation in Lebanon: Reality and Future Directions
Saouma BouJaoude, American University of Beirut, Lebanon
5. Science Teacher Education in Pakistan: Policies and Practices
Hafiz Muhammad Iqbal & Nasir Mahmood, University of the Punjab, Pakistan

Section III: Marking Sense of Science Teacher Learning

6. Higher Order Thinking in Science Teacher Education in Israel
Yehudith Weinberger, Kibbutzim College of Education; Anat Zohar, The Hebrew University, Israel
7. Secondary Science Student Teaching Assessment Model: A United States and United Kingdom Collaborative
Kate Baird, Learning by Design, USA; Marilyn Brodie & Stuart Bevins, Sheffield Hallam University, UK; Pamela Christol, NASA/AESP, USA
8. Thinking Like a Teacher: Learning to Teach Science in a Study Abroad Program
Sandra Abell and Amy Jacks, Purdue University, USA

ORDER FORM

Science Teacher Education: An International Perspective

OR

Examining Pedagogical Content Knowledge

Method of Payment (*For Visa/MasterCard complete information below)

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Mail this with appropriate postage to: Dr. Jon E. Pedersen, 20 Van Vleet

Oval ECH114, Normalville, OH 43051 (U.S.A.)

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Complete the following information:

Name: _____

(Please print as it appears on your credit card)

Credit Card Type: _____

Credit Card #: _____

Credit Card Expiration Date: _____

.....
: Nominate a colleague for an AETS Award :

Are you aware that AETS presents 5 awards at the annual conference? Three awards recognize the personal achievements and contributions of its members (Award I, "Outstanding Science Teacher Educator of the Year," Award II, "Outstanding Mentor Award," and Award III, "Honorary Emeritus Membership"). Two other awards (Award IV—"Innovation in Teaching Science Teachers" and Award V, "Implications of Research for Educational Practice") recognize excellence in papers presented at the previous AETS Annual Meeting. While all the awards offer a plaque, Carolina Biological Supply, Delta Education, and Wards Natural Science sponsorship permits cash awards to accompany Awards I, II, IV, and V. Award III confers waived association dues for the recipients and a published tribute in the *Journal of Science Teachers Education*. Awards IV and V also offer the recipients consideration of publication of their award papers in the *Journal of Science Teachers Education*.

The deadline for submission of materials for the awards is JUNE 1.

For further information (including the criteria and required materials for each award) please contact:

Dr. J. Randy McGinnis, AETS Awards Chairperson
 University of Maryland, College Park
 Science Teaching Ctr., Rm. 2226J Benjamin Bldg.
 College Park, MD 20742
 E-Mail: jm250@umail.umd.edu

Journal Profile

Journal of Elementary Science Education

JESE is an international journal of peer-reviewed general articles focusing on elementary science education--K-9. The Journal of Elementary Science Education invites submissions of manuscripts written to communicate ideas, theories, research, and field-oriented information related to supervision and curriculum and instruction in elementary science teacher education.

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 701.777.3139 (voice)
 or
 mark_guy@und.nodak.edu

**REGIONAL WORKSHOPS FOR EDUCATORS
 ON STANDARDS-BASED SCIENCE AND MATH TEACHING
 HOSTED BY AAAS'S PROJECT 2061**

A series of regional three-day workshops designed to help school leadership teams bring standards-based science and mathematics programs into the classroom will be held by Project 2061, the long-term K-12 education reform initiative of the American Association for the Advancement of Science. The *Focus on Standards for Science and Mathematics* professional development workshops will be held this summer in Columbia, MO (June 26-28), Minneapolis, MN (July 10-12), Houston, TX (July 10-12), Seattle, WA (July 17-19), and Cleveland, OH (July 31-Aug. 2). Fall workshops are scheduled for Baltimore, MD (Oct. 4-6), Atlanta, GA (Oct. 4-6), New Orleans, LA (Oct. 25-27), and Miami, FL (Nov. 1-3).

For more information on these and other Project 2061 programs, including the *Focus* workshops, call 202-326-6666 or visit www.project2061.org.

Publications of Interest to AETS Members

From the National Science Foundation

User-Friendly Handbook for Project Evaluation: Science, Mathematics, Engineering and Technology Education (nsf98128)

This handbook was developed to provide Principal Investigators and project evaluators working with the NSF's Directorate for Education and Human Resources with a basic understanding of selected approaches to evaluation. It is available on-line at:

<http://www.ehr.nsf.gov/EHR/RED/EVAL/handbook/handbook.htm>

User-Friendly Handbook for Mixed Method Evaluations (nsf97153)

This handbook builds on the above but amplifies the role of a combination of quantitative and qualitative evaluative techniques. It is available on-line at:

<http://www.ehr.nsf.gov/EHR/REC/pubs/NSF97-153/start.htm>

From the National Academy Press

Testing Teacher Candidates: The Role of Licensure Tests in Improving Teacher Quality

A report which presents the findings of the Committee on Assessment and Teacher Quality of the National Academy of Science's Board on Testing and Assessment. Available at: <http://www.nap.edu/catalog/10090.html>

Knowing What Students Know

A report of the NRC's Committee on the Foundations of Assessment. A "natural extension of the conclusions and recommendations of How People Learn." Available at: <http://www.nap.edu/catalog/10019.html>



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The Mid-Atlantic Regional Unit and the City of Charlotte are proud to host the 2002 Annual International Meeting of the AETS. The conference theme is *Science Education: Financing Scientific Literacy for Global Success*. Preliminary details and conference program proposal inside.

AETS Newsletter

Published four times a year by the Association for the Education of Teachers in Science

Issue	Items Due by
Autumn	Oct. 15
Winter	Feb. 15
Spring	May 15
Summer	Sept. 15

Please send items and suggestions for best serving you to:

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