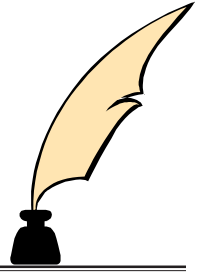


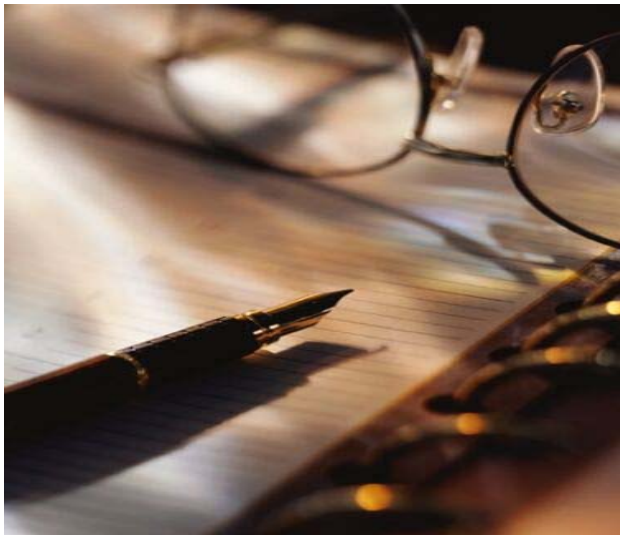
SCHOLARSHIP at SPSU

an Academic Achievement Support Group Newsletter



Issue 1 • Spring 2004

Welcome to the first Academic Achievement Support Group newsletter, Scholarship at SPSU. The purpose of this publication is to share what SPSU faculty have produced in their area of scholarship during the previous semester. This issue focuses on accomplishments from fall semester 2003 (many authors included earlier works as well). In addition to simply listing scholarly publications and presentations, several faculty have shared comments relating to their scholarly pursuits - comments that tell us the significance of a particular item - the problems the author experienced in creating the work - and solutions they have discovered to address issues in scholarly publishing. Others have summarized the content of their brown bag presentations.



It is my hope that, as a result of reading about what our colleagues have done, you will glean some good ideas for your own projects, as well as gain confidence and encouragement for your continued or renewed writing projects. Please consider sharing your accomplishments and successful processes in future issues of this newsletter.

I developed the Academic Achievement Support Group with selfish motivation. I have difficulty writing and

really dislike the process. At the same time, I am committed to produce scholarly work. As I looked around the university and talked with many colleagues, I discovered that the pursuit of scholarly publication comes easier for some than for others. Whether it is easy, or is a challenge for you, we all can learn from each other and as a result increase scholarship overall.

I took my concept to the then VPAA Sandy Pfeiffer in spring 2003 to discuss the development of this program with him. I gained his moral support and proceeded to develop the concept. I spoke with IVPAA David Hornbeck in fall 2003 and he encouraged this pursuit.

Beginning Spring 2004 the AASG was born. With the help of many colleagues, the following brown bag lunches have begun a process of support not previously in existence at SPSU. The AASG has monthly brown bag lunches where you can talk about scholarship issues and listen to some of our more prolific colleagues share their best ideas. In January at the first lunch Rich Halstead-Nussloch of CSE presented his very useful tips for success, which provoked a lively continuing discussion. In February David Dayton of HTC also spoke, sharing his keys to successful scholarship.

I sincerely appreciate the support of Dr. Hornbeck, CTE and many colleagues who have participated in the brown bags and contributed to the newsletter. I hope others find AASG of value in their own scholarly pursuits.

Bernice Nuhfer-Halten

Participate in future brown bag lunches:

March 23 • Carol Barnum - HTC

April 13 • 1:30 PM - OPEN TBA

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School of Architecture, Civil Engineering Technology, & Construction

Curtis Sartor

I have a document being published in a book about diversity at the University of Wyoming. The publication is entitled "20 on 20/20 Vision". It includes 10 invited contributions and 10 peer-reviewed papers. The publication is scheduled to come out sometimes near the beginning of the year. The contact person is Prof. Linda Rusk at the University of Wyoming and Nancy Jenner, Deputy Director, Boston Society of Architects Boston Ma.
(617) 1433 x227.

Carlos A. Ortiz

This a list of the articles I have written:

"Use of Membrane Bioreactor Process for Wastewater Treatment: Case Study" (co-author Alma Manga), 2003 ASEE Annual Conference, Nashville, June 22-25, 2003.

"Southern Polytechnic State University-Paulding County Collaboration" (co-author Michael L. Jones) 2003 Conference for Industry and Education Collaboration, January 28-31, 2003.

"Study on Sludge Recirculation in a Metal Removal System", 2002 ASEE Annual Conference, Montreal, Canada, June 16-19, 2002.

The difficulties found while doing the experimental work include: availability of equipment and economic resources to conduct study and lack of support in terms of lab assistants or student workers. The most critical aspect is the lack of equipment necessary to conduct experimental studies in the environmental laboratory. Although some equipment has been acquired, we are still working with technologies of the 1960 era.

Tim Zeigler

Worked on a paper that was presented at the 2003 ASEE Southeast Section Conference in April 2003.

Process-Began through CTC

Impact-Student learning, continued work through CTC, and sharing with SPSU community

School of Arts & Sciences

Albert Churella

Scholarship for last (autumn) semester includes:

Articles:

Machine, Monument, and Metropolis: New York's Pennsylvania Station," at the Hagley Museum and Library, exhibit review, *Technology and Culture*, forthcoming
"The Southern Museum of Civil War and Locomotive History," museum review article, *Journal of Transport History*, forthcoming

Book Reviews:

Alfred Yee, *Shopping at Giant Foods: Chinese American Supermarkets in Northern California*, for EH Net, forthcoming

Steven W. Usselman, *Regulating Innovation: Business, Technology, and Politics in America, 1840-1920*, for EH Net, forthcoming

Plus, I'm still working on the book, with the tentative title *America's Railroad: A Technological and Cultural History of the Pennsylvania Railroad, 1846-1968*.

Kenneth T. Rainey

Two of my articles have appeared in the annotated bibliography of "Essential Works for Technical Communication" in the 50th anniversary issue of *Technical communication*, 50 (4), 596:

"Doctoral research in technical, scientific, and business communication, 1989-1998." *Technical communication*, 46 (4), 501-531.

[and Rebecca S. Kelly] "Doctoral research in technical communication, 1965-1990." *Technical communication*, 39 (4), 552-570.

Keith Hopper and I have an article in the *Proceedings* of the IEEE Professional Communication Society Conference: "A Pilot Study of Self-Assessment of Word Processing and Presentation Software Skills in Graduate Students in Technical Communication" *Proceedings*, International Professional Communication Conference, Orlando, FL, September 2003: 242-249.

I have the following article:

"Teaching Technical Writing to Speakers of Other Languages." *Preseedings and Post Harvest*, Forum 2003, Milan, Italy, July 2003. ["Preseedings" and "Post Harvest" are correct jargon terms] for proceedings

I was Invited panelist for plenary session on "Expanding Borders: Relationships, Contexts, Competencies." Council for Programs in Technical and Scientific Communication, Clarkson University, Potsdam, NY, Oct. 2-4, 2003. My presentation was "The Body of Knowledge in Technical Communication."

I presented "The Impact of Current Trends on Technical Communication Curricula." Council for Programs in Technical and Scientific Communication, Clarkson University, Potsdam, NY, Oct. 2-4, 2003, which will appear in the Conference *Proceedings*.

School of Arts & Sciences (continued)

James Whitenton

Article submitted (March 2003) to Mathematics Magazine:
title: "Series and Products with Relative Velocities"
authors: Brian Cook, Joel Fowler and James Whitenton

(Brian is a math major at SPSU doing research with Dr. Whitenton)

David Dayton

Dayton, D. (2003). "Electronic Editing in Technical Communication: A Survey of Practices and Attitudes." *Technical Communication*, 50(2): 192-205.

Dayton, D. and Bernhardt, S. (2004). "A Membership Survey of ATTW Members, 2003." *Technical Communication Quarterly*, 13(1): 13-43.

Dayton, D. (2004). "Electronic Editing in Technical Communication: The Compelling Logics of Local Contexts." *Technical Communication*, 51(1): 1-16.

Dayton, D. (2004). "Electronic Editing in Technical Communication: A Model of User-Centered Technology Adoption." *Technical Communication*, 51(2): in press.

Thomas Rotnem

As requested by you, Bernice, here is some information from me regarding my academic achievement during summer/fall 2003:

1.) I co-delivered a paper entitled, "Determinants of Successful Market Entry in Emerging Economies," at the Association for Global Business Conference in November in Atlanta at the Sheraton Colony Square. For that paper, by the way, we (my wife and I) received a "Best Paper Award Certificate" from the President and Chairman of the Executive Board. And, lastly, this paper was revised and made into an article and will be published in the *Proceedings of the Association of Global Business*, Charles M. Byles, ed. (forthcoming).

2.) I wrote and presented another article, "Determinants of F.D.I. in Post-Communist Economies: The Role of Corruption"

at the Georgia Political Science Association meeting this semester at Callaway Gardens.

3.) I also contributed an essay on "*Anna 'Porphyrogenita'*" in *Great Lives from History: The Middle Ages and Pre-Renaissance*, Leslie Ellen Jones, ed. Salem Press: CA. Forthcoming.

4.) Lastly, my book review of "The Baltic Transformed: Complexity Theory and European Security," by Walter Clemens was published and appeared in *Demokratizatsiya* Vol. 11(3) in Summer 2003.

Steve Edwards

"Lucas Numbers and Golden Triangles in the Regular Pentagon",

Submitted to the Fibonacci Quarterly, but rejected:

"...Your results and proofs are correct. And your paper is well-written. However, I feel that much of the material in your paper would be known to the readers of the Fibonacci Quarterly.... You might want to consider submitting your paper to another journal...."

"Lucas Numbers in the Regular Pentagon", Invited talk, Integers Conference 2003, State University of West Georgia, November 2 2003

"Nuggets of Gold in the Regular Pentagon", Mathematics Colloquium, SPSU, October 8, 2003

"Miles of Tiles-Patterns in the Plane", three-hour mini-course presented at the MAA/SIAM Joint regional Meeting, Clemson University, March 21, 2003. The CD-Rom produced and used for this presentation was also distributed to participants.

Tiling Plane and Fancy, a web site at www2.SPSU.edu/math/tile/index.htm

School of Engineering, Technology & Management

Dr. Ronny Richardson

I have five articles on digital imaging published in the October 2003 issue of Technological Horizons in Education Journal.

They can be read online at:

<<http://www.thejournal.com/magazine/vault/M2658.cfm>>

Digital Imaging: The Wave of the Future. A discussion of the use of digital imaging in the classroom.

InFocus X1. A review of this model of projector.

Battle of the Resolutions: SVGA vs. XGA Projectors. A discussion of two resolutions of projectors and how they work in the classroom.

Seven Tips for Improving Your Digital Pictures

Sony MVC-CD350 CD Mavica Digital Camera. A review of this camera.

Venu Dasigi

1. Machiraju, C., S. Kanda, and V. Dasigi: Applications of Intelligent Information Retrieval Techniques to a TV Similar Program Guide, accepted for the 17th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE), Ottawa, Canada, May 2004.

This work has resulted from the Georgia Electronic Design Center (formerly Yamacraw) project. The problem, issues, and the approach/experiments have been identified by me, but the students implemented the work and conducted the experiments. This work generalizes from the work by Dasigi and Liu in two ways: (i) Both classification and retrieval approaches have been studied and (ii) a more systematic experimentation has been conducted with standardized metrics.

2. Dasigi, V. and X. Liu: Issues in Automatic Classification and Retrieval of Closed Caption Transcripts, to appear in Proc. First Indian International Conference on Artificial intelligence, Hyderabad, India, December 2003.

This work resulted from the Georgia Electronic Design Center (formerly Yamacraw) project. The problem, issues, and the approach/experiments have been identified by me, but the student implemented the work and conducted the experiments.

3. Liu, X., L. Liang, A. Wang, and V. Dasigi: A Smart TV Guide, Proc. the International Conference on Embedded Systems and Applications - ESA-03, Las Vegas, June 23-26, 2003, pp. 22-25. This work resulted mainly from a class Dr. Wang taught. Mr. Liu was my research student and was in that class. He found some connections between our work and the class project they did and we discussed possible integration.

4. Zhang, Y. and V. Dasigi: A Test Bed for Information Retrieval Experimentation, CD-ROM Proc. IASTED International Conference on Applied Informatics, Innsbruck, Austria, February 2003.

This work was motivated by a need in our experimental research. I suggested the work to Ms. Zhang as a possible Master's project topic and she built a first generation test bed. I believe this idea might motivate more comprehensive versions of such test beds. Similar ideas from others have been found useful by information retrieval researchers.

Juan Carlos Guzmán

I submitted three papers for consideration — none of them have been approved or rejected so far:

- J.C. Guzmán, Declarative Algorithms for Language Theory, submitted to AESE, SE Section Annual Conference, Auburn, AL. April 2004

- N. Javeri & J.C. Guzmán, Real Time streaming service on Java Embedded Server using Java Media Framework, submitted to SCI 2004, Orlando, FL, July 2004
- D. Pujari, N. Javeri & J.C. Guzmán, XML middleware to services on STB, 42nd Annual ACM Southeast Conference, Huntsville, AL, April 2004.

In addition, Devyani Pujari finished her Master's Thesis "Interfacing the Set-Top Box using Components" under my direction.

Andy Ju An Wang

(1) J.A. Wang, Information Security Practice, XanEdu Publishing Services, ISBN 1-59399-044-8, May 2003.

A work book for students to learn fundamental principles through lab practice and hands-on experience in operating system security, program security, network security, database security, and Web security.

(2) J.A. Wang and Vaibhav Sevale, "A Component Model for Web Services", in Proceedings of the 7th IASTED International Conference on Software Engineering and Applications, eds. M.H. Hamza, ACTA Press, ISBN 0-88986-394-6, ISSN 1482-7905, November 2003, pp. 1 — 4. Web Services can be implemented in different technologies such as JWSDP, .NET, and BPEL4WS. This paper proposed a generic component model that is independent of any technology serving as a formal basis for addressing component discovery, component assembly, and component deployment for Web Services.

ISBN 0-88986-394-6, ISSN 1482-7905, November 2003, pp. 396 — 401.

The increasing diversity of I/O devices challenges the conventional approaches to driver design and implementation. This paper proposed a component-based approach to developing device drivers.

(4) X. Liu, L. Liang, J.A. Wang, and V. Dasigi, "A Smart TV Guide", in Proceedings of the International Conference on Embedded Systems and Applications, eds. H.R. Arabia, et. al., CSREA Press, ISBN 1-932415-16-5, June 2003, pp. 22 — 25. This paper was derived from a course project in SWE6823: Embedded Systems Analysis and Design.

Using Java Card technology, a SIM (Subscriber Identification Module) card application was developed to enable a user to display her/his personalized TV guide on a GSM cell phone.

(5) J.A. Wang, "The Operating Service Architecture for Smart Networked Appliances", Version 1.0. This invention was filed as US Provisional Patent Application with serial number: 60/477,432. June 10, 2003.

Andy Ju An Wang (continued)

The vision of this invention is that there will have a gateway device installed in every home in the future, which monitors and controls all home appliances with wired or wireless home network connecting to a wide area network such as the Internet. The software architecture for such a gateway device has been specified, designed, and partially implemented.

(6) J.A. Wang, Arif Karakamukkala, and Lawrence R. Thomas, "Converge Internet and TV Using OSGi and DASE", Version 0.5. This invention was filed as US Provisional Patent Application with serial number: 60/477,431. June 10, 2003. OSGi offers network connection and management services but it lacks interactive digital TV (iDTV) applications support, while DASE is mainly a programming environment for developing iDTV applications but it lacks network connecting and Web Services facility. These two complementary technologies have been integrated seamlessly in this

invention to extend the richness of TV content and to enhance the interactive capability of TV programs.

(7) J.A. Wang and Vaibhav Sevale, "Web Services on a Home Gateway and Appliances", Version 0.5, April 2003. This invention was filed as US Provisional Patent Application with serial number is 60/477,433, June 10, 2003. Web Services have been implemented on an OSGi-based home gateway such that: (1) Home appliances act as Web Service clients, e.g., a TV viewer could access any Web Services available on the Internet with a full or partial TV screen. (2) Home appliances act as Web Service servers, e.g., a set-top box could provide a family oriented Web Services to the world. (3) A home user could define and modify her/his own access profile to receive personalized Web Services through a home gateway device, e.g., a set-top box or a roof-top box.

Advice Corner

Venu Dasigi

The impact of any research work is hard to judge quickly. The reviewer comments, which are sometimes rather critical, generally indicate the relevance of the work and the interest it generates in the field. But actual impact of the work might not be felt for some time; sometimes it gets acknowledged through citations. Sometimes, even when others build on top of the work, or find some connections to our work that might motivate new ideas, such connections are not always acknowledged or sometimes, they are out shadowed by elements of other similar work.

David Dayton

A series of three articles condensing the results and theorizing from my dissertation on electronic editing has been accepted by the journal Technical Communication. I recently sent off the final article in that series (the cites for which are listed below). Last May and June, I also conducted a rapid survey study in collaboration with Stephen Bernhardt of the University of Delaware. The resulting article will appear in this month's issue of Technical Communication Quarterly.

I'm working as second author on another survey study in collaboration with Keith Hopper.

My plan this summer is to review the literature on XML and single sourcing and start gathering interview data. In the fall, I'll do another survey using innovation

adoption and diffusion as my theoretical lens. The approach to this topic will parallel the approach I took to my dissertation study of electronic editing. The resulting paper on the diffusion of XML in technical communication will probably not get written up until the summer of 2005; however, I should be able to get a conference paper or two out of the interim results.

At SPSU, even graduate faculty have little time to plan research projects and keep them moving forward during the regular semesters. I have to wait until the summer to make real progress on research and writing. Like most researchers in the humanities, I expect to have to pursue my research without additional compensation during the summer break because getting grants for such work in my field is extremely rare. I'd love to be in a field that uses the engineering model of research at research universities: large collaborative teams directed by faculty, with much of the grunt work carried out by graduate students. It's too late for me to change fields, though, so I do the best I can with the opportunities available to me.

Dr. Becky Rutherford

I conducted three workshops this fall (ranging from 1 1/2 -3 hours long) on copyright law, patents, trademarks and trade secrets. These were given in New Jersey, Washington (state), and here in Atlanta.

Dr. Becky Rutherford (continued)

As far as importance:

“I’ve found that most faculty are really not aware of copyright law and what we are allowed to produce for the classroom. Similarly, we have two new laws - The Digital Millenium Copyright Act and the Teach Act that affect us as well.”

Workshop presentations are different from writing papers, but you still need to do research on current information and be able to give references to attendees at workshops.

Andy Ju An Wang

Thanks for your great effort to promote scholarship in our university. I believe a university needs both teaching excellence and research excellence as well. Teaching and research are like two legs of a person — you cannot run without one leg. This is especially true in the area of computer science, software engineering, and information technology, which progresses so rapidly. We have to keep current through constant research and scholarship, if we want to maintain our teaching excellence.

Brown Bag Highlights

Excerpts from the January Brown Bag Dr. Rich Halstead-Nussloch - Professor, IT

Academic Achievement: A few Small Tips

Tip 1: For academic achievement at SPSU, expect Resistance

- Resistance to change
- Resistance to “academics”
- Resistance from within yourself
- Resistance to do more than teach
- Also, expect resistance’s r-r-relatives
- President Rossbacher: “Teaching without scholarship is like cofession without sin.”

Tip 2: For academic achievement at SPSU, find likeminded colleagues

- Today, much intellectual activity is a “team sport”
- So, find good colleagues either
 - On the SPSU campus (good)
 - Elsewhere (good)
 - Both (best)
- Look to your professional/discipline organizations, e.g., ACM CHI worked for me

Tip 3: For academic achievement at SPSU, tell a story too

- I told story of growing in “Lake Wobegon”
- My Family ran a grocery store
- It converted to self-service, cash and carry in the 1950’s -- the physical antecedent of virtual shopping
- Was the most attractive part of my contribution

Excerpts from the February Brown Bag Dr. David Dayton - Assistant Professor, HTC

... In every scholarly projects we undertake after the dissertation, we repeat the same process on a smaller scale.

After analyzing the rhetorical patterns in hundreds of research articles, John Swales (Genre Analysis, 1990) came up with a model for the typical patters that he dubbed “Create a Research Space.” The introduction of a peer-reviewed article usually establishes what problem was investigated, why it is important, what work has already been done on the problem, and how the present work provides additional knowledge that is important because it is new and unexpected or because it adds significant evidence to support an emerging theory.

Creating a research space on any particular topic takes curiosity, obsessive scanning of the relevant literature, and strategic inventiveness: Finding a focus that’s interesting to you and, you hope, to peer reviewers and editors, and that’s also doable within the constraints on your time and budget...

... A younger scholar in my field talking to me at a conference said he was following the advice of his dissertation chair: To always have one article just published, one in the peer-review pipeline, and one under construction. He worked at a Research I Institution. Is that definition of scholarly productivity viable at SPSU? For me, I think it is, but only because I’m inventive and read voraciously: I have plenty of ideas I can turn into journal articles over a summer of reading and writing.

Remaining productive as a scholar at SPSU is more difficult if your work requires labs, experiments, and human subjects. Were I to move in that direction, which might involve research in our usability lab, I would look for colleagues willing to partner on writing grant proposals and designing and carrying out experiments with the help of master’s students. The “lacks” that keep me from going in that direction are well known to faculty at SPSU: sufficient time during regular semesters, research funding, and master’s students willing to take on the heavier workload and longer timeline of the thesis option...