



THE MATH-SCIENCE CONNECTOR

<http://www.ssma.org/>

2007 Convention A Success

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The School Science and Mathematics Association Annual Convention was November 15-17, 2007 at the Adam's Mark Hotel in Indianapolis, IN. Thanks to **Don Balka** and his helpers for a great convention. There were more than 130 sessions conducted by national and international speakers on a wide variety of topics in mathematics, science and the integration of concepts and ideas from both mathematics and science. The Town



Don Balka

Hall meeting provided an opportunity for members to share their thoughts and ideas regarding the vision and mission of our organization. Keynote sessions included **Dr. Suellen Reed**, Indiana Superintendent of Public Instruction who provided insights on the "Integration of Mathematics and Science", **Henry S. Kepner**, President-Elect, National Council of Teachers of Mathematics who provided an overview on "The NCTM Focal Points: Using This Document in YOUR Search for a Coherent Mathematics Curriculum", and **P. John Whitsett**, President, National Science Teachers

Association who addressed some of the issues in "Anchoring the Science Standards for the 21st Century". Explore Learning hosted one of the evening receptions and provided an overview of their online Gizmos for use in mathematics and science instruction. More information on the convention can be found throughout this issue of the newsletter.



Dr. Suellen Reed
Indiana Superintendent of
Public Instruction
with Don Balka



Henry S. Kepner
President-Elect, National
Council of Teachers of
Mathematics



P. John Whitsett
President, National
Science Teachers
Association



**Explore Learning
Reception**

*The Nominations and Elections Committee recommends that the following SSMA members be put on the slate for Director at large for the period 2008-2011: **Diana Schmidt** (Florida, mathematics), **Catherine Kelly** (Colorado, mathematics), **Molly Weinburgh** (Texas, science), and **Carla Johnson** (Ohio, science). Photos and short bios for each candidate can be found on pages 4 and 5.*

Memories of the SSMA 2007 Annual Convention Indianapolis, IN



2007 SSMA Awards Breakfast

Art White, SSMA President, presented the Early Career Scholar award to **Bharath Sriraman**, Associate Professor of Mathematics at The University of Montana. Art thanked outgoing SSMA Board member **Gregory Chamblee** and welcomed incoming Board member **Alfinio Flores**. Art thanked **John Park** for completing a term for a vacant position on the board and congratulated him on his election for a new term. Art also welcomed **Alan Zollman** as the new President-Elect.

2007 SSMA Outstanding Early Career Scholar

Bharath Sriraman describes himself as one who “comes from a background interested in Indian philosophy accidentally turning to mathematics as it seemed to be the easiest route to academic degrees, who then became involved in mathematics education as a result of teaching in U.S public schools, and returned back to philosophy, particularly the philosophy of science, Indo-Iranian studies and Non-Aristotelian logics”. His formal education consists of 11-years at a Catholic school in Bombay, India followed by degrees in Alaska (B.S in mathematics) and then Northern Illinois (M.S. and Ph.D. in mathematical sciences). His informal education includes a 4 year interlude in the merchant marine after becoming disillusioned by a constrictive school atmosphere and education. He has published about 125 or so papers in a wide variety of domains such as mathematics education, educational philosophy, history and philosophy of mathematics and science, educational psychology, creativity, innovation and talent development, gender issues, political structures in education, and social justice issues. The complete list of all of his publications and papers presented can be found online at <http://www.math.umt.edu/sriraman/presented.html>.



Bharath Sriraman

Bharath's interest in the SSMA group stems from having read the *School Science and Mathematics* journal for a number of years, and finding an interesting intersection of research in science and mathematics education not offered by other mathematics or science education journals. The research interests of individuals in SSMA and the interdisciplinary nature of their work appeals to him to the extent that he sees himself investing time and energy in this society. He is the co-founder of an international group called MACAS (Mathematics and its Connections to the Arts and Sciences) which holds biennial meetings. Information on this group can be found online at <http://www.macas2.sdu.dk/>.



Bharath's SSMA Session

Bharath is very active in editorial positions in about a dozen academic journals which fall within areas of his interests. Languages and linguistics are another noteworthy hobby in addition to traveling extensively in the Nordic, Mediterranean, and Central/South Western Asian regions to work with collaborators and doctoral students. A complete copy of his vita and research interests can be found online at http://www.cas.umt.edu/casweb/for_faculty/FacultyDetails.cfm?id=667.



**Art White presents plaque to
Greg Chamblee
Outgoing Board Member**



**John Park
North Carolina State University
New Board Member**



**Alfinio Flores
University of Delaware
New Board Member**



**Alan Zollman
Northern Illinois University
President-Elect**

Candidates for SSMA Board of Directors



Catherine A. Kelly

Associate Professor of
Mathematics Education
Chair, Department of
Curriculum and
Instruction
University of Colorado at
Colorado Springs

Current Academic Responsibilities

I teach graduate and undergraduate mathematics methods courses and mathematics cognate courses for the Masters Degree in Curriculum & Instruction with a special emphasis in mathematics; serve as Chair of Department of Curriculum and Instruction; serve on the Graduate Executive Committee for evaluating and approving new and existing programs across all campus colleges.

Recent Accomplishments

Invited Visiting Scholar to Longwood College, Spring, 2008; Invited Visiting Scholar, Buffalo State, Spring, 2008; appointed to the system-wide Emerging Leaders Program (ELP), 2007-2008; served on the Emerging Issues Committee for the National Council of Teachers of Mathematics and was a key reviewer for the new publication, *Curriculum Focal Points (NCTM, 2006)*; editor of the Colorado Council of Teachers of Mathematics journal, *The Colorado Mathematics Teacher* (2001-2008).

Service to SSMA

Member, Nominations Committee, Current; Member, Policy Committee, 2004-06; Member, Endowment Committee, 2000-05; Reviewer, *School Science & Mathematics* journal, 2000-2007.

Vision for SSMA

As a distinguished member of the SSMA Board of Directors, my focus will be to further promote the building of positive attitudes about and the integration of mathematics and science at all levels and among all educators. I believe that, as leaders in mathematics and science education, we must bring school leaders and teachers state-of-the-art methodologies for not only optimistically encouraging, but expecting, high quality learning outcomes for all students at all levels.

Diane L. Schmidt

Associate Professor of Science and
Mathematics Education
Florida Gulf Coast University
10501 FGCU Boulevard South
Fort Myers, FL 33965-6565



Current Academic Responsibilities

I teach undergraduate and graduate level courses in the College of Education at Florida Gulf Coast University. My primary undergraduate responsibilities include teaching methods courses in science, mathematics, and integrated science and mathematics. At the graduate level, I teach a variety of curriculum and methods courses, advise graduate students, serve on thesis committees, and mentor students on capstone projects.

Recent Accomplishments

I co-founded the Whitaker Center for STEM Education at FGCU and served as the assistant director and director from 2003-2007. In 2005, I co-authored a book on mathematics teaching and in 2006 a handbook on developing conceptual change lessons. In 2006, I was selected as a member of the Project Kaleidoscope Leadership Initiative, and this past year, I co-developed two unique master's degree programs in Science Education and Mathematics Education for K-12 teachers.

Service to SSMA and professional organizations

I joined SSMA as a new faculty member in 2002 and have presented at the national convention each year. I currently serve on the convention committee and am slated as the site director for the 2010 convention in Fort Myers, FL. Although I am a member of numerous organizations, I focus my service in SSMA and the Florida Association of Teach Educators (FATE) because of their commitment to mentoring young faculty and graduate students while supporting the needs of K-12 educators. I served on a number of FATE committees and am a reviewer for the FATE Journal.

Vision for SSMA

SSMA models a true learning community, providing wonderful opportunities for university faculty, graduate students, and teachers to interact informally, collaborate, and develop professional relationships. While our size contributes to this, we know that we must increase our membership and conference attendance to continue the vision. I believe we can capitalize on our culture to attract new members, especially among K-12 and preservice teachers.

Candidates for SSMA Board of Directors



Carla C. Johnson

Associate Professor of Science
Education
University of Toledo
Toledo, OH 43606

Current Academic Responsibilities

I have been at the University of Toledo since 2005. At UT I am the Director of CATALyST (Coalition for Advancing Teaching and Learning in STEM Education). I have taught undergraduate science/mathematics internship seminars, as well as graduate level courses in science education theory and research. I also chair several master's and doctoral committees. Prior to UT I was an Assistant Professor at Utah State University and Northern Kentucky University.

Recent Accomplishments

I was selected as the recipient of the SSMA Outstanding Early Career Scholar Award in 2006. I have also received over \$8 million in external funding for programs to recruit and retain science and mathematics teachers. Additionally, I was elected President of the National Middle Level Science Teachers Association and was selected to serve on the Editorial Board of the *Journal of Research in Science Teaching*.

Service to SSMA and professional organizations

I have been a member of SSMA for several years now. I have presented at SSMA conferences and published in the *School Science and Mathematics* journal. I have also served on the Endowment and Awards Committee for SSMA for the past six years. I have been very active in other professional organizations including serving on the Council of NSTA, Editorial Board for *Science Scope*, and several other roles. I am currently serving on the External Policy and Outreach Committee for NARST and as Immediate Past President of NMLSTA.

Vision for SSMA

I believe it is a critical time for SSMA to play a role in shaping policy and informing the future of science and mathematics education. As a member of the Board, I would work to further bridge the gap between research and practice – in order to provide teachers access to the resources of our association. Additionally, I would work to increase the awareness at the university level of our association in order to increase membership, discourse, and collaborative activities.

Dr. Molly H. Weinburgh

Texas Christian University
William L. & Betty F. Adams Chair
of Education
Director of the Institute of
Mathematics, Science and
Technology Education



Current Academic Responsibilities

I joined the faculty of TCU in 2002. I taught biology, health, and physical science for 16 years before completing my doctorate in 1993. My first faculty appointment was at Georgia State University (1991-2002) in Atlanta, Georgia. I direct the Ph.D. in Educational Studies: Science Education, teach graduate and undergraduate courses in science education, and the Honors section of a non-majors biology course.

Recent Accomplishments

I have received external, competitive funding totaling nearly \$6,000,000 from the National Science Foundation, Eisenhower Fund, Southeastern Regional Vision for Education, and Coca Cola Foundation. Projects include the Elementary Science Education Partners for improving K-5 science in the Atlanta Public School System, Integrating Gender Equity and Reform focusing on the teaching of science and mathematics at the college level, the Decatur Math/Science Project, PT3 which helped establish technology rich educational environments in science, and the Mathematic/Science/Language Camp. Most recently I have been nominated by the students for the TCU Most Inspirational Faculty Award (<http://www.sga.tcu.edu>) and nominated by the College of Education for the Dean's Research and Creativity Award.

Service to SSMA and professional organizations

My involvement with professional organizations includes: President of the Association for Science Teacher Education (2001); President of Southwest Association for Science Teacher Education (2007); Association for Science Teacher Education Board of Directors (1998-2001); Strand Coordinator of Culture, Social, and Gender Issues of the National Association of Research in Science Teaching (2000-2002); Chair of the Committee on Math and Science Education of the Council of Science Society Presidents (2002); Local Arrangement Committee for the National Science Teachers Association (1996); Policy Committee of the School Science and Mathematics Association (2002-2005); and Finance Committee of the School Science and Mathematics Association (2005-2008).

SSMA Associate Editors, Reviewers, and Manuscripts Needed

If you are interested in being an Associate Editor for the *School Science and Mathematics* journal, please contact **Gerald Kulm, Editor**, at gkulm123@yahoo.com and submit a letter outlining your areas of research expertise and experience, along with a 2-page vita. Associate Editors review the outside comments by reviewers for about 4-5 manuscripts a year, then prepare a recommendation letter for the Editor to accept, revise, or reject the manuscript.

If you would like to be a Reviewer, please go the Journal website at <http://ssmj.tamu.edu/> and complete an application form. Reviewers prepare comments, reviews, and recommendations for 1-2 manuscripts a year in their area of specialization. Reviewers are needed in all areas of expertise, especially teacher preparation and professional development.

Quality manuscripts for the Journal are needed. Please see an issue of the Journal or visit the website for content areas and guidelines for submission. Members are especially encouraged to submit data-based research manuscripts on K-12 teaching or learning of science or mathematics, or their integration.

The SSMA online submission and review site:
<http://ssmj.tamu.edu/>.

Nominations for SSMA Board of Directors

To nominate a candidate to serve on the SSMA Board of Directors, a petition of twenty-five (25) signatures can be sent to **Kees de Groot, Chair of the Nomination and Election Committee**. Self-nominations are accepted as well. Please contact:

Cornelis (Kees) de Groot
State University of New York at New Paltz
75 S. Manheim Blvd.
New Paltz, NY 12561
degrootc@newpaltz.edu

New Address for SSMA

The School Science and Mathematics Association Executive Directors' Office has moved. **As of August 1, 2007**, all membership and subscription business with SSMA will be handled through the new office located at Oklahoma State University (OSU) in Stillwater, Oklahoma. Please make note of the following contact information for your records:

School Science and Mathematics Association
Oklahoma State University
College of Education
245 Willard
Stillwater, OK 74078
Fax: (405) 744-6290
Telephone: (405) 744-7396
Email: office@ssma.org

Make Plans to Attend the SSMA 2008 Convention

Thursday-Saturday, November 13-15, 2008

Raleigh-Durham, NC

Sheraton Imperial Hotel & Convention Center

4700 Emperor Blvd
Durham, NC 27703
(919) 941-5050



John Park shared information on the 2008 Convention plans at the Awards Breakfast

For more information:

John Park
North Carolina State University
Department of Mathematics,
Science, & Technology
Education
Campus Box 7801
Raleigh, NC 27695

Past, Present and Future SSMA Presidents



Pictured are the past, present, and future presidents of SSMA who attended the 2007 Convention. Left to Right: Current President Art White; Past Presidents: Donna Berlin, Carol Stuessy, Linda Sheffield, Lloyd Barrow, and William Speer; and President-Elect Alan Zollman. Not pictured: Jerry Becker

School Science and Mathematics Association

2008 Annual Convention

Thursday-Saturday, November 13-15, 2008

Raleigh-Durham, NC



Sheraton Imperial Hotel & Convention Center

4700 Emperor Blvd

Durham, NC 27703

(919) 941-5050

CALL FOR SPEAKERS

If you are interested in presenting a session at the convention, complete the information requested below. You may print this page or log on to the SSMA web site at SSMA.org and send the completed form to:

John C. Park
Department of Mathematics, Science and Technology Education
Campus Box 7801
North Carolina State University
Raleigh, NC 27695-7801

Telephone: (919) 817-4558
FAX: (919) 515-1063
E-Mail: park@unity.ncsu.edu

Electronic submissions (this form attached to an E-Mail to John Park) are encouraged. After blind review by the program committee, you will be notified whether your proposal is accepted for the program. If you have any questions, contact SSMA Central Office at: E-Mail: office@ssma.org or call (405) 744-7396. We look forward to hearing from you.

Speaker Proposal Deadline: April 21, 2008

Name: _____

Affiliation—School/Department: _____

Affiliation Address: _____

City: _____ State: _____ Zip: _____

Home Telephone #: _____ Work Telephone #: _____

FAX #: _____ E-Mail: _____

Current Member of SSMA: Yes No

< Over Please >

Proposed Session Title (Approximately 12 words or less):

Purpose or goal of the proposed session:

Abstract of the proposed session (200 words or less):

Please mark all that apply.

Audience: **Elementary** **Middle Childhood**
 Secondary **College/University**

Type of Session: **Workshop (90 minutes)** **Regular (50 minutes)**
 Symposium/Panel (50 minutes) **Brief (25 minutes)**

Topic(s): **Assessment** **Curriculum** **Informal Education** **Integration**
 International **Inquiry** **Learning** **Research**
 Teacher Education **Teaching** **Technology**
 Professional Development

Session Length:

Select one: **25 minutes** **50 minutes** **90 minutes (Workshops Only)**

Projectors for computer presentations will be provided, as well as overhead projectors for transparencies. Computers will NOT be provided, so bring your own if you intend on using one. Other special equipment will be the responsibility of the speaker.

I will need: **Projector for my presentation using my computer**
 Overhead projector for my presentation using my transparencies

All presenters are required to register for the meeting by September 15th. If not registered by that time, they will be dropped from the program.

Call for 2008 Awards

The SSMA Awards

Committee invites the membership to submit nominees to be considered for the **GEORGE G. MALLINSON DISTINGUISHED SERVICE AWARD** and **AWARD FOR EXCELLENCE IN INTEGRATING SCIENCE AND MATHEMATICS** to be awarded at the 2008 Annual Convention. The criteria for each award are listed below. Previous winners of the awards can be found at the SSMA website (<http://www.ssma.org>).

GEORGE G. MALLINSON DISTINGUISHED SERVICE AWARD

The guidelines for the Distinguished Service Award, which may be given annually by SSMA, are as follows:

- Nominee should have been a member of SSMA for at least 10 years.
- Nominee should have shown substantial participation and leadership in SSMA activities such as paper presentations at meetings, committee work, membership work, reviewer for journal, etc.
- Nominee should have exhibited scholarship, leadership, and/or teaching excellence in mathematics/science education.

Any member of SSMA is free to nominate a person(s) satisfying the criteria noted above. An application may remain active for three years. Winner receives a complimentary conference registration.

Submission Requirements (PDF preferred; Word file also accepted)

- **Vita**
- **Summary (double-spaced; 12 font) addressing:**
 - **How nominee has shown substantial participation and leadership in SSMA activities**
 - **How nominee has exhibited scholarship, leadership, and/or teaching excellence in mathematics/science education**

Materials (for each award) are to be sent electronically to **Alfinio Flores** (alfinio@udel.edu) prior to **March 5, 2008**.



AWARD FOR EXCELLENCE IN INTEGRATING SCIENCE AND MATHEMATICS

The guidelines for the Award for Excellence in Integrating Science and Mathematics are as follows:

- Nominee should be a person or group who/which has fostered, promoted, and extended the integration of mathematics/science at the elementary, secondary, or university level.
- Nominee should be active in science/mathematics education and in the development of curricula for the preparation of teachers, educational research, or other activities of significant educational value.
- Nominee should have shown an impact on science/mathematics education.

Any member of SSMA is free to nominate a person(s) satisfying the criteria noted above. The nominee need not be a member of SSMA. Winner receives a complimentary conference registration.

Submission Requirements (PDF preferred; Word file also accepted)

- **Vita**
- **Summary (double-spaced; 12 font) addressing:**
 - **How person or group has fostered, promoted, and extended the integration of mathematics/science at the elementary, secondary, or university level**
 - **How person or group has impacted science/mathematics education**





Materials (for each award) are to be sent electronically to:
Alfinio Flores
(alfinio@udel.edu)
 prior to **March 5, 2008**

OUTSTANDING EARLY CAREER SCHOLAR AWARD

The Early Career Scholar Award acknowledges contributions to science and/or mathematics education during the five years immediately following receipt of the doctoral degree. To qualify for the award the nominee must have received the doctoral degree on or after May 1, 2003.

The Early Career Scholar Award winner will be invited to speak (registration included) at the Annual Convention and receive \$500 towards conference travel expenses.

Any member of SSMA is free to nominate a person(s) satisfying the criteria noted above. The nominee must be a member in good standing for 1 year prior to submitting application & a member in good-standing to receive the award.

Submission Requirements

- **Vita**
- **Submit three exemplary refereed scholarly works. Scholarly works must be published or in press.**
 (Materials need to relate to themes common to mathematics and science education; Integration; Technology; Constructivism/Inquiry; Professional development; Other)
- **Two-page (double-spaced; 12 font) summary addressing:**
 - **Research interests**
 - **How submitted scholarly works have impacted research area (Note percent of contribution and nature of contribution to submitted co-authored scholarly works)**
- **Two support letters emailed separately addressing:**
 - **Scholar's contribution of work to the field**
 - **Quality of nominee's scholarship**
 (One support letter must be from non-dissertation committee member)

Nominate An Outstanding K-6 Mathematics or Science Teacher for the 2008 Presidential Awards for Excellence in Mathematics and Science Teaching Program

Online nominations are now open for the 2008 Presidential Awards for Excellence in Mathematics and Science Teaching program, marking the 25th anniversary of this award.

Administered by the National Science Foundation on behalf of the White House, this is the highest honor in the Nation that teachers of mathematics or science may receive for outstanding teaching in their respective fields. Since 1983, more than 3,700 teachers from the 50 States and 4 U.S. jurisdictions (American Samoa, Guam, the Commonwealth of the Northern Mariana Islands, and the U.S. Virgin Islands) have been selected to join the dynamic network of Presidential Awardees. The network serves as a vital resource for improving science, technology, engineering, and mathematics education and helping to keep America globally competitive.

Visit <http://www.paemst.org> for eligibility requirements, nomination guidelines, and application information. The deadline for nominations is March 1, 2008. Completed applications are due May 1, 2008.

This year, the call is for elementary school teachers (kindergarten through sixth grade) to compete for this prestigious award. Award recipients receive:

- A citation signed by the President of the United States
- A paid trip for two to Washington, DC, to attend a weeklong series of recognition events and professional development opportunities
- A \$10,000 award from the National Science Foundation
- Gifts from program sponsors from around the country
- The chance to build lasting partnerships with colleagues across the Nation

Nominate yourself. Nominate a colleague. Encourage others to nominate outstanding teachers!

<http://www.paemst.org>

Secondary school mathematics and science teachers (7th through 12th grade) are eligible to apply in 2009.

Proposed Amendments to SSMA By-Laws

In May 2006, a Vision Subcommittee of the SSMA Board of Directors reviewed the current mission and goals statement of the organization. The review team made suggestions for revision, and submitted their recommendations to the SSMA Policy Committee for review. After revisions, the suggested mission and goals statement was presented at the 2006 SSMA Convention in Missoula, MT. The members attending the town hall session made additional suggestions for revision. The resulting 24 pages of suggestions were distilled by a subcommittee of the Board at the May 2007 Board of Directors meeting. This revised document was presented a second time to the SSMA Policy Committee for review and final refinement. The proposed amendments to the SSMA by-laws have been approved by the Board of Directors at the November 2007 Convention in Indianapolis, IN and are now ready for a vote by the members. This will be on the spring ballot along with the candidates for Directors-at-Large.

Present mission statement:

“The School Science and Mathematics Association is dedicated to improving instruction at all levels in and between science and mathematics by providing leadership in the field. Its primary work and publications address the needs of all of those involved in the science and mathematics teaching and learning processes.”

Proposed mission statement:

“The School Science and Mathematics Association strives to be an inclusive professional community bringing together researchers and teachers to promote research, scholarship, and practice to improve school science and mathematics and to advance the integration of school science and mathematics.”

Present Article II: Objectives

“The purposes of the Association are exclusively scientific, educational, literary, not-for-profit, charitable and no other, and in furtherance of only these purposes the particular business and objectives of said corporation shall be (a) to facilitate the dissemination of knowledge in mathematics and science; (b) to encourage critical thinking and the utilization of the methods of science through instruction in science and mathematics; (c) to emphasize the interdependence of mathematics and the sciences in education, research, writing, and curriculum development; (d) to provide the means for dialogue among teachers of mathematics and the various sciences; (e) to identify and to help solve problems common to science and mathematics education; (f) to make information available to teachers concerning selection, organization, and use of instructional materials and methods in the sciences and mathematics; (g) to stress the interrelationships of mathematics and the sciences with other disciplines; (h) to plan, organize, administer, and evaluate projects that are keeping with the aims of science and mathematics education; (i) to work for the improvement of the professional qualifications of teachers in the sciences and mathematics; (j) to encourage research in science and mathematics and their interrelationships; (k) to cooperate with other professional organizations in efforts to improve education; (l) to help inform teachers, administrators, and the public of studies which suggest better ways for students to learn mathematics and science; (m) to identify issues, make collective statements of policy, and publicize such positions as they suggest improvement of instruction and of the profession generally; (n) to help evaluate effective teaching practices in science and mathematics; and (o) to assist with identifying aspects of science and mathematics which illustrate societal issues and concerns.”

Proposed Article II: Goals

Four goals define the activities and products of the School Science and Mathematics Association:

1. Building and sustaining a community of teachers, researchers, scientists, and mathematicians
2. Advancing knowledge through research in science and mathematics education and their integration
3. Informing practice through the dissemination of scholarly works in and across science and mathematics
4. Influencing policy in science and mathematics education at local, state, and national levels





School Science and Mathematics Association

Application for Membership

(2008-2009)

School Science and Mathematics Association (SSMA) Membership

Name: _____ E-Mail: _____ Date: _____

Affiliation—School/Department: _____

Affiliation Street Address: _____

City: _____ State: _____ Zip Code: _____ Country: _____

Affiliation Telephone #: _____ Fax #: _____

Home Street Address: _____

City: _____ State: _____ Zip: _____ Home Telephone #: _____

Preferred Mailing Address: [] Affiliation OR [] Home

Area(s) of Expertise: (Please check all that apply.)

- [] Assessment [] Curriculum [] Informal Education [] Integration [] International
[] Inquiry [] Learning [] Mathematics [] Research [] Science
[] Teacher Education [] Teaching [] Technology [] Technology Education
[] Other _____

Grade Level(s): (Please check all that apply to your students or to your pre-service/in-service teachers.)

- [] Pre-K [] K [] 1 [] 2 [] 3 [] 4 [] 5 [] 6 [] 7 [] 8
[] 9 [] 10 [] 11 [] 12 [] Post-Secondary [] Pre-Service [] In-service

MEMBERSHIP RATES: (Please check one.)

- [] Active \$50.00/year [] Active International \$60.00/year
[] Student \$25.00/year [] Student International \$30.00/year
[] Emeritus.....\$25.00/year [] Life \$625.00, one-time payment

(Please check one.) [] Membership Renewal [] New Member

X: _____

Signature of Faculty Instructor or Advisor (Students Only)

Mail to:

Check, money order, or cash in US\$ payable to SSMA

School Science and Mathematics Association
College of Education
Oklahoma State University
245 Willard
Stillwater, OK 74078

Program Officer for Math Networks

The Program Officer will lead a network of Math teachers from 10 -12 New Visions' PSO schools to improve student achievement and preparation for college work. The Program Officer will provide structured, collaborative learning that strengthens practitioners' knowledge of Mathematics, and instructional practices. The Program Officer will collaborate with program officers in other content areas and with New Visions' Facilitators at each school.

Employment
Opportunities

Core Duties and Responsibilities:

- Meet regularly with school-based teams in 10 – 12 PSO schools up to a half day every other week
- Analyze student performance data to identify instructional areas for improvement
- Strengthen instruction by working with teachers in the classroom by coaching, modeling, and observing practice
- Support teams in analyzing their practice and working collaboratively
- Facilitate the development of lessons and curricula that integrate key concepts and skills of the discipline, are inquiry based, and foster differentiated and personalized learning
- Foster teachers visiting each others' classrooms within the school
- Promote cross-school learning by organizing, planning, and leading 4 -5 network sessions and summer institute
- Collaborate with other New Visions staff in planning, implementing, and facilitating professional development for colleagues
- Regularly use and promote the use of New Visions' Knowledge Base, an open source platform, to build and sustain learning communities and share promising practices and knowledge.

Education and Experience:

- Master's-level degree in Mathematics
- Minimum of ten years of experience in public education, preferably urban schools and at the secondary level.

Required Skill Sets and Knowledge Base:

- Expert knowledge of Mathematics at the secondary school level
- Leadership in providing professional development and support to educators
- Demonstrated experience with inquiry-based teaching, experiential learning, and connecting mathematics to real world applications
- Experience designing and implementing curriculum
- Excellent written, oral, organizational, and inter-personal skills including strong facilitation skills
- Demonstrated experience working collaboratively
- Experience with standards-driven school reform.

Send cover letter and resume to: Ben Katz, bkatz@newvisions.org

Assistant Professor or Associate Professor in Mathematics Education – Western KY University:

Qualifications: A Doctorate in Mathematics Education with a minimum of 18 hours of graduate-level mathematics courses is required. The successful candidate must show evidence of excellence in teaching, potential for research in mathematics education, commitment to outreach in K-12 schools, and effective communication skills. Teaching experience in grades K-12 and experience in web-based learning are desirable. Salary is commensurate with qualifications and experience. Review of documents will begin January 15 and will continue until the position is filled. A letter of application, vita, statement of philosophy of teaching, summary of experience in mathematics education, unofficial transcript, and three letters of reference should be addressed to:

Dr. Wanda Weidemann
Department of Mathematics
Western Kentucky University
1906 College Heights Blvd. #11078
Bowling Green, KY 42101-1078

Assistant/Associate/Full Professor in Elementary Education Emphasis in K-6 Mathematics Education

REQUIRED QUALIFICATIONS: Earned doctorate in Elementary Education, Mathematics Education, Curriculum and Instruction, or a related field with emphasis in K-6 Mathematics Education; proven scholarly research and publication record appropriate for a Research Intensive University or the potential to establish such a record; commitment to social justice; commitment to innovation and collaboration in working with schools and university colleagues; minimum of three years experience in K-6 schools or equivalent settings such as government or private institutions specializing in Mathematics Education; and qualify for K-6 teaching license in North Carolina.

PREFERRED QUALIFICATIONS: Expertise in teaching with technology, capacity to lead courses and seminars focusing on diversity for preservice and inservice teachers, and a demonstrated commitment to integrating diversity related course materials into the mathematics curriculum.

APPLICATION PROCEDURE: Compile a letter of application, vita, and three references.

- 1) Visit jobs.ncsu.edu and select Search Postings.
- 2) Type in the following Position Number: 03-26-0737 and select Search.
- 3) Select View under the job title you have chosen
- 4) Select Apply for this Posting at the top of the ad
- 5) If you are a New Applicant, you can create an applicant profile by selecting Fill out a New Application. However, if you already have an electronic application on file with this University, please login to the site with your User Name and Password
- 6) As you create or update your profile, you will have the opportunity to upload the letter of application, vita, and list three references.

Kentucky Science and Technology Corporation (KSTC) - Directors Wanted

The Kentucky Science and Technology Corporation (KSTC) is searching for three experienced Directors to support an ambitious new initiative in Kentucky to help accelerate student achievement on Advanced Placement coursework and exams in Mathematics, Science, and English. This effort is affiliated with the National Math and Science Initiative (NMSI). The full ad and related links and materials can be found at <http://www.kstc.com/?665>. Contact Joanne Lang (<mailto:jang@kstc.com>) at KSTC for additional information.

Scientific Journals International (SJI)
<http://www.scientificjournals.org/>

SJI publishes peer-reviewed open-access journals for all disciplines and maintains a rapid turnaround from submission to publication, averaging 30 days. SJI mission is to give every researcher, writer, or artist a fair consideration to be published.

Our goal is also to provide immediate, world-wide, open access to the full text of research articles and creative works. If you are interested in serving on our volunteer Editorial Review Board, please complete and submit the form at <http://www.scientificjournals.org/wanted.htm>. If you have a colleague who may enjoy serving on our Review Board, please forward our Web site address to him or her. Manuscript submission guidelines for all journals can be found at <http://www.scientificjournals.org/submission.htm> Current issues can be found at http://www.scientificjournals.org/current_issue.htm.

Education and Information Technology Digital Library (EdITLib)
<http://www.EdITLib.org>

- Search 20,000+ articles and access abstracts.
- Read most viewed abstracts in Library community.

At no cost, you can:

- Store collections of articles in personal binders.
- Email abstracts to colleagues.
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Subscribe for 1 year and receive 15+ years of articles (20,000+) from 10 journals and 4 conferences!

Individual and library subscriptions are also available.

OR Search the Library and purchase individual

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The Kentucky Center for Mathematics (KCM) is looking for a mathematician or mathematics educator to join us as **Executive Director**. The KCM is a statewide center, housed at Northern Kentucky University designed to support diverse teacher and student populations across the Commonwealth of Kentucky by facilitating the development of mathematical proficiency, power for future success, and enjoyment of teaching and learning mathematics. The KCM provides significant opportunities for outreach to the P-12 community and for many aspects of mathematics education research.

Agencies holding a stake in the KCM include the Kentucky Council on Postsecondary Education, the Kentucky Department of Education, the Kentucky Board of Education, the Kentucky legislature, and Kentucky's public postsecondary institutions. Leading the charge to participate in a dynamic collaborative effort aimed at improving the teaching and learning of mathematics at all levels of education, the Executive Director provides overall leadership for the KCM and is responsible for the programmatic, administrative, scholarly, and fiscal leadership. The Executive Director reports to the Dean of Arts and Sciences and will be tenured in the appropriate department. To find out more about this position, the KCM, and its programs, visit the KCM's web site: <http://www.kentuckymathematics.org>

We believe that the best fit for this position will be an individual whose characteristics include: a demonstrated record in teaching, scholarship, and service that would warrant a tenured position (Associate or Full Professor) in the Department of Teacher Education and School Leadership or the Department of Mathematics at NKU; administrative experiences which characterize an informed and collaborative professional who can lead and inspire a group of professionals in diverse roles; demonstrated commitment to mathematics education (P-16); demonstrated ability to effectively communicate with the center's stakeholders as listed above; experience with securing external funding and directing large projects; and effective interpersonal skills.

Interested candidates should submit, either via mail or electronically, a cover letter addressing relevant experience, a CV, and the names and contact information for 5 professional references (these references will not be contacted without candidate permission) to Dr. Phil Schmidt, Chair, KCM Executive Director Search, Northern Kentucky University, Founders Hall 519, Highland Heights, KY 41099 or to KCMSearch@nku.edu. Review of candidates will begin on Feb. 1, 2008 and continue until the position is filled.

Located seven miles from downtown Cincinnati in an area offering an outstanding quality of life, NKU is a nationally recognized metropolitan university of 15,000 students committed to active engagement with the Northern Kentucky/Greater Cincinnati region of over two million people. The campus is expanding rapidly, with growing enrollment and construction of academic and co-curricular facilities. We are among the few institutions recognized by Carnegie for our civic engagement. Our institution is built on core values that emphasize multidimensional excellence, learner-centered education, access across the lifespan, civic engagement, diversity and multiculturalism, innovation, collegiality, and collaboration across disciplines and professional fields. NKU is committed to recruiting and retaining faculty, staff, and administrators who have both the interest and ability to work across the full breadth of the University's mission.

International Conference on Technology in Collegiate Mathematics
 March 6-9, 2008 @ San Antonio, TX
<http://www.ictcm.org/>

The 20th Anniversary of the **International Conference on Technology in Collegiate Mathematics** is being held in San Antonio March 6-9, 2008. Please see <http://www.ictcm.org/> for registration and all other information. Register on-line. The DEADLINE for early registration is February 22, 2008.

The Ninth International Conference on Technology in Mathematics Teaching (ICTMT 9)
 Metz, France – July 4-8, 2009
<http://www.ictmt9.org/>

The Ninth International Conference on Technology in Mathematics Teaching (ICTMT 9) Metz, France -- July 4-8, 2009. Additional information will be posted at <http://www.ictmt9.org/> in mid 2008.



Triangle Coalition Annual Conference on STEM Education Policy

February 25-26, 2008

Alexandria, Virginia

It seems hard to believe that our annual STEM Education Policy Conference is so close at hand. This year's conference will be held on February 25-26. Each year this meeting brings together key stakeholders in STEM education and this year the conference promises to be extremely valuable. On the agenda this year is a discussion led by **Dr. Camilla Benbow**, the Vice-Chair of the National Mathematics Advisory Panel and Dean of Education and Human Development at Peabody College, Vanderbilt University. She will be sharing findings from the Panel and their soon to be released final report. This is one of the first opportunities to hear firsthand what the Panel has concluded and their recommendations. You won't want to miss this unique experience.

Other presentations will focus on Curriculum Integration and the role of Engineering in STEM education efforts with **Hans Meeder**, the former Deputy Secretary of Education for Vocational and Adult education. He currently is President of the Meeder Consulting Group working with states and communities as they look for opportunities to build a stronger technical education program. Panel discussions will address current legislation from the 2009 Budget proposals to the reauthorization of No Child Left Behind. We will discuss the STEM Pipeline and the relevance of STEM Education to America's Competitive edge. You won't want to miss this year's conference.

There is still limited space available but you will want to make sure you get registered soon. We will once again meet in beautiful Old Town Alexandria, Virginia, just across the river from Washington, DC. The conference hotel, the Hilton Alexandria Old Town, is situated in the heart of the quaint Old Town Alexandria area just steps from the King Street Metro and Amtrak Station and is just minutes away from Washington's Reagan National Airport and downtown Washington, DC via the Yellow or Blue Metro Lines.

Additional information about the conference can be found at <http://www.trianglecoalition.org/conf.htm>.

*Asian Technology Conference in Mathematics,
Bangkok, Thailand, December 15-19, 2008*
<http://atcm.mathandtech.org>

2008 Asian Technology Conference in Mathematics, Bangkok, Thailand, December 15-19, 2008

The goal of this conference is to provide a forum for educators, researchers, teachers, and experts in exchanging information regarding enhancing technology to enrich mathematics learning, teaching, and research at all levels. English is the official language of the conference. Submission of a proposal and abstract deadline is June 15, 2008. See <http://atcm.mathandtech.org> for full information.

*Algebra through Function Academy
June 22-27, 2008 @ Duck, North Carolina*

Teaching algebra from a function approach requires the use of **function and function behaviors** to teach concepts and skills such as factoring, equation solving, arithmetic operations on polynomials, systems of equations,

inequalities, properties of inequalities, definitions, concept of asymptotic behavior, absolute value, slope, laws of exponents, etc. Using unique materials, we will reorder the algebra content and use function concepts to develop understanding of, interest in, and long-term memory of traditional algebraic ideas. We will capitalize on cognitive processes of associations, pattern building, attention, visualizations, meaning, the enriched teaching environment, distributed learning, and priming. We will model how to teach algebra through a function approach with graphing calculators, and demonstrate why they are crucial to teaching and learning. At the *Algebra through Function Academy* we will use the TI-84 Plus SE, CBL2, CBR2, and Vernier EasyLink, as tools of choice when teaching algebra. Instructors will be Debbie Crocker (Appalachian State University) & Ed Laughbaum (The Ohio State University). For registration information, please find the form online at <http://www.math.ohio-state.edu/~elaughba/>. The deadline for registration is May 1, 2008 and is limited to 35 people. For additional information, please email Ed Laughbaum (elaughba@math.ohio-state.edu).

Moody's Mega Math Challenge
<http://M3Challenge.siam.org>

Moody's Mega Math Challenge is an applied mathematics competition open to high school students. There are no entrance or participation fees of any kind, and scholarship prizes total \$65,000. Teachers who act as coaches are recognized with nice appreciation gifts. Moody's Mega Math Challenge has run only in the NYC metro area for the past two years, with huge success and participation. We are fortunate to have funding from The Moody's Foundation to increase the number of schools that are able to participate in this year's Challenge.

The Montana Mathematics Enthusiast
<http://www.montanamath.org/TMME/>

The third monograph of The Montana Mathematics Enthusiast, entitled "Festschrift in honor of Guenter Toerner's 60th birthday" is available online for free. It contains a collection of 17 articles written by well known scholars in areas related to Toerner's work. Information Age Publishing will now be the new publisher of The Montana Mathematics Enthusiast: Monograph Series in Mathematics Education. They will be publishing both print and online versions starting with monograph 3. Bharath Sriraman is soliciting proposals from the community from those interested in guest editing future monographs in the series. If anyone has a topic in mind and would like to propose a monograph, please don't hesitate to contact Bharath (SriramanB@mso.umt.edu). I will be happy to share details.

North American Study Group on Ethnomathematics (NASGEm)
http://www.ccd.rpi.edu/eglash/nasgem/newslet/NNvolume2_1.pdf

The inaugural issue of NASGEm News is available online. The next issue will be published in April 2008, with a submission deadline of mid-March. Please send us your news about events, publications, resources, and calls. Short articles (600-800 words) about ongoing work and teaching practice are also welcome. Contact Dawn Wiseman (dawn@nativeaccess.com) for more information.

11th International Congress on Mathematics Education
Monterrey, Mexico, July 6-13, 2008 – <http://icme11.org/>

The second announcement for ICME-11 is available online at <http://icme11.org/>. To download the (PDF) announcement, click the website URL, scroll down and click on SECOND ANNOUNCEMENT, then scroll down to the bottom and click on "2ndAnnouncement[Nov26].pdf".

11th International Congress on Mathematics Education
Plenary 2 – <http://icme11.org/>

ICME 11 Plenary 2: Give Teachers a Voice in Shaping the Research Agenda
 Thank you to those who have already completed the online survey - we have a very pleasing mix of nationalities responding. BUT, we need many more responses if teachers are truly to contribute to shaping the research agenda in mathematics education. If you are able to alert mathematics teachers to the opportunity to take part in this survey, please do so as a matter of urgency. The online survey will only remain open until the end of February. The procedure is simple: Go to the ICME 11 website (<http://icme11.org/>) and select the Plenary Session 2 Survey link from the menu items on the right-hand side of the web page. Responses are needed from all countries, all school types, and all levels of the school system including teachers, policy makers, and curriculum developers. It is important that mathematics teachers around the world make their views known and contribute to shaping the direction of mathematics education research internationally.

International Conference on Knowledge Generation, Communication and Management
– June 29 – July 2, 2008 – Orlando, FL – <http://www.sciis.org/KGCM2008>

The second International Conference on Knowledge Generation, Communication and Management (KGCM 2008) will be held jointly with The 3rd International Symposium on Knowledge Communication and Peer Reviewing (KCPR 2008) and The 3rd International Symposium on Knowledge Communication and Conferences (KCC 2008) in Orlando, Florida, USA, on June 29th to July 2nd, 2008. For information visit <http://www.sciis.org/KGCM2008>.

Teach in Hawaii – Online programs
<http://manoa.hawaii.edu/teach>

The University of Hawaii – College of Education has a new online post-baccalaureate program in Math and Science secondary education? See the program website for more information.

Chicago Lesson Study Group
<http://www.lessonstudygroup.net/>

Seventh Annual Lesson Study Conference

Building a Worldwide Collegial Network through Lesson Study
 Thursday, May 8 – Saturday, 10, 2008, Chicago, IL CPDUs will be available to Illinois teachers. Featured Presentations include:

Learning from Lesson Study (Kaye Stacey, Faculty of Education - Science and Mathematics Education, University of Melbourne, Australia), *Use of Lesson Study to Implement Singapore Revised National Curriculum* (YEAP Ban Har, National Institute of Education (Singapore)), *Issues in Implementing Curricula That Focus on Students' Learning Process --Panel Discussion* (Takahashi Nakamura, Yamanashi University; Japan Kaye Stacey, University of Melbourne, Australia; Tad Watanabe, Kennesaw State University, Georgia; YEAP Ban Har, National Institute of Education; Singapore Makoto Yoshida, and William Paterson University, New Jersey). For more information visit <http://www.lessonstudygroup.net/>.

Conference on CAS in Secondary Mathematics
June 28-29, 2008 - Renaissance Chicago North Shore Hotel; Northbrook, IL -- <http://meecas.org>

Computer algebra systems (CAS) have the potential to revolutionize mathematics education at the secondary level. They do for algebra & calculus what calculators do for arithmetic: simplifying expressions, solving equations,

factoring, taking derivatives, and much more! On-line registration, updates, and hotel are information available at <http://meecas.org>. The conference is sponsored in part by Texas Instruments and organized by MEECAS (Mathematics Educators Exploring Computer Algebra Systems).

Pi Across America – March 14th
<http://www.PiAcrossAmerica.org>

"Pi Across America" is celebrating its second year and urges you to mark March 14th (3:14) for a special "pi day" celebration. Visit our free website for ideas on how to celebrate pi.

International Conference on Education and Information Systems, Technologies and Applications
Orlando, FL – June 29 – July 2, 2008
<http://www.socioinfocyber.org/eista2008>

February 27th is the new deadline for papers/abstracts submissions and Invited Sessions Proposals for EISTA 2008: The 6th International Conference on Education and Information Systems, Technologies and Applications (Orlando, Florida, USA, on June 29th to July 2nd, 2008).

TechEd 2008 – Ontario, CA – April 13-16, 2008
Orlando, FL – June 29 – July 2, 2008
<http://www.TechEdEvents.org>

TechEd, the Technology in Education International Conference & Exposition is just around the corner coming April 13 - 16, 2008 to the Ontario Convention Center in Ontario, California.

National Association for Gifted Children
Tampa, FL – October 29 – November 2, 2008
<http://www.nagc.org/index.aspx?id=2415>

National Association for Gifted Children [NAGC] -- 55th Annual Convention. The **Math & Science** strand seeks to promote a greater understanding of the need for academic challenge and support within the disciplines of mathematics and science, as well as

innovative strategies and research related to either field. Sessions in this strand will address teaching strategies that promote critical thinking in math and science classrooms, successful programs and curriculum, international comparisons of math and science achievement and programming, developing exceptional math and science talent, teacher training, and encouraging young scholars in the STEM fields. We invite you to join the authoritative voices and information pioneers in the field of gifted as they gather under one roof this year in *Tampa, October 29 - November 2, 2008*. For more information: <http://www.nagc.org/index.aspx?id=2415>.

Center for the Study of Mathematics Curriculum
Chicago, IL – May 2-4, 2008
<http://www.mathcurriculumcenter.org/conferences.php>

The Center for the Study of Mathematics Curriculum (CSMC) is hosting an international conference on the subject "Future Curricular Trends in School Algebra and Geometry" on May 2-4, 2008, at The

Field Museum in downtown Chicago and on The University of Chicago campus. The conference will feature international experts from Australia, Europe, and South America, and national expertise from the United States. For additional information, visit <http://www.mathcurriculumcenter.org/conferences.php>.

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2008 SSMA Convention
Raleigh-Durham, NC
November 13-15, 2008

Sheraton Imperial Hotel & Convention Center
4700 Emperor Blvd
Durham, NC 27703
(919) 941-5050

- Ⓢ Sheraton Imperial Hotel & Convention Center
<http://www.sheratonrtp.com/>
- Ⓢ Raleigh's Official Tourism Site
<http://www.raleighcvb.org/>
- Ⓢ City of Raleigh
<http://www.raleigh-nc.org/>
- Ⓢ Downtown Raleigh Alliance
<http://www.godowntownraleigh.com/>
- Ⓢ North Carolina State University
<http://www.ncsu.edu/>
- Ⓢ Raleigh Chamber of Commerce
<http://www.raleighchamber.org/>
- Ⓢ Raleigh Weather Conditions
<http://www.wunderground.com/US/NC/Raleigh.html>
- Ⓢ North Carolina Office of Archives and History
<http://www.ah.dcr.state.nc.us/>
- Ⓢ The Triangle City Guide
<http://triangle.citysearch.com/>



Membership in the School Science and Mathematics Association is open to any person who supports the objectives of the Association, who has paid membership dues, and completed an application.

Benefits of SSMA Membership include:

- Membership in an association encompassing both science and mathematics teaching and learning.
- 8 issues of the official journal *School Science and Mathematics*.
- 3 issues of the SSMA newsletter *The Math-Science Connector*.
- Opportunities to submit presentation proposals for the Annual Convention.
- Voting privileges for Association business and election of officers.
- Opportunities to serve on an SSMA Committee or Leadership Team.

Additional information about SSMA is available at our website (<http://www.ssma.org>) or by contacting **Julie Thomas and Sandi Cooper** (office@ssma.org).

To contribute news items for inclusion in the SSMA newsletter (*The Math-Science Connector*), please contact **Valeria Amburgey** (vamburgey@insightbb.com).