

# WASDI Academies 1999

## High School Workshops - Science



### Using Toys to Teach Science - Grades 6-12 (SW), Grades 7-12 (CR)

Presenter: Larry Scheckel, Tomah High School

Learn how to use toys to help students develop genuine inquiry problem-solving and higher level thinking skills. Emphasis will be on how to use toys effectively as part of the science curriculum. Lesson plans, concept development, hands-on learning and the learning cycle will all be part of this exciting week. Over two hundred science-related toys will be demonstrated. Participants will make and take several dozen toys and also receive many handouts.

### Chemystery: Environmental Science and Health - Grades 6-12 (NW)

Presenter: Tom Zinnen, UW-Madison Biotechnology Center

What can cause cancer and birth defects? How do we know if our water is safe, our air is clean, our food is pure? How can toxins affect how our bodies work and develop? Environmental health sciences combine ecology, biology and chemistry to provide a base for making public policy and improving public health. Use hands-on experiments and case study activities to develop science savvy in environmental issues.

### Hands-on Activities, Projects and Explorations - Grades 5-10 (JM Williams Bay)

Presenter: Peter Watts, Riverside Middle School, Watertown, WASDI Lead Teacher

This workshop will focus on a number of activities aimed at making science meaningful and fun. We'll look at surface tension, light and optics, aerodynamics, and density. We'll investigate bubbles, fingerprinting, catapults, bridges, flic-flacs, Rube Goldberg-like contraptions, and lots more stuff to make science come alive for students and parents alike.

### Cooperative Competitions in Physical Science and Physics - Grades 7-12 (JM Verona)

Presenter: Jim Hurlley, Shell Rock High School, Waverly, IA

Fire up your students with competitions directly related to your course content! Design footwear that allows you to walk on water (you might want to bring your swimsuit or trunks!), construct mousetrap-powered dragsters, predict ranges for water balloon launches, compute the power generated by a tiny simple motor, and design and test catamarans (for the Rain Gutter Regatta!), catapults, parachutes, exotic paper airplanes, and pipette rockets. While these and other activities and projects culminate in competitions, the processes of hypothesizing, testing and modifying and working cooperatively are emphasized. Participants will receive an extensive packet of reproducible activities and have a lot of fun!

### Foods/Biology: Using Foods to Teach Biological Concepts - Grades 9-12 (WRVA)

Presenter: Mark Totten

A basic "hands-on" course, providing activities using plants, bacteria, fungi, and DNA. Intended for general Biology, Advanced Biology, and teams of Family and Consumer Education and Biology teachers. This course will use everyday food materials to teach biological concepts.

### Basic Molecular Biology Techniques - Grades 9-12 (WRVA)

Presenter: Teresa Barta

Genetics has become the fastest developing branch of biology. The goals of this course are to give hands-on experience performing some basic molecular biology techniques and to show how those procedures are used to answer biological questions. This is an introductory course for high school biology teachers who are looking for ideas to incorporate molecular biology into their courses, or those who simply wish to have a better understanding of the science in order to discuss current issues in their classes. The course may be taken for one week (1 credit) or two weeks for (2 credits).

### Aviation - Grades 7-12 (WRVA & E)

Presenter: Dan Fara

Explore the wonderful world of flight, with some hands-on experiences in aviation. This session is designed for the individual who wishes to learn about airplanes and how they fly. Participants will become familiar with the basic fundamentals of aeronautics. They will build a glider, work with aerodynamics, navigation, radio communication, FAA regulations, physiology of flight, map reading, flight simulation, reading weather reports, and go on an actual flight.



Mathematics, Science and Technology for Teachers



# WASDI Academies 1999



## ***High School Workshops - Science cont.***



### **Wisconsin Energy Education Program (KEEP) - Grades K-12 (WRVA & ST)**

Presenter: Jennie Lane

Through hands-on activities and class discussions, learn how you can enhance students' understanding of what energy is, where it comes from, and how it affects their lives. You will also receive a copy of KEEP's comprehensive, easy-to-use Energy Education Activity Guide and be introduced to additional energy-related educational materials. This course is designed for teachers who want to experience it today and teach it tomorrow.

### **Researching Science the Write Way - Grades 7-12 (E)**

Presenter: Rhoda Maxwell, UW-Eau Claire

Join Rhoda as she leads you through her research process using writing as its base. You will experience a questioning approach to research, learn how levels of writing support this approach and how to access information via electronic means. Integrated into the learning of the research process will be strategies for searching the Internet to answer the questions you want to research.

### **WOW Material Science: A World of Wonder! - Grades 9-12 (CR Core)**

Presenter: Ken Turner, Jr., Schaumburg School District

Supplement your courses with inquiry-driven units on composites, smart sensors, infrastructure, liquid crystals, carbon chemistry and biosensors. Your students can grow a diamond thin-film, make a card that changes color with temperature, or a plastic that produces a voltage when touched. These are very adaptable, project-based, student-centered modules on the most current topics in materials science. They have a strong math component and are especially suited to chemistry, physics, and physical science courses; although all science teachers will find applications. You will be provided with content, materials, instruction, and resources.

### **Health Care: Using Mathematics, Science and Technology to Save Lives Grades K-12 (CR)**

Presenters: Margaret Dickens-Grosskopf, Kay Scham, Karen Taylor, Steve Schreiner, Corey Weinfurter, Patricia Griffen, Patricia Traphagan, All CVTC Instructors

During this week-long workshop, participants will focus on the many applications of math, science and technology in the health care industry. Participants will analyze tissues and disease-causing organisms, apply sonographic technology in scanning body organs, discover how computers enhance X-ray diagnosis, and explore how technology is applied in the critical few moments when a heart has stopped beating. Using a hands-on approach, participants will discover how math and science, applied K-12 support these cutting-edge technologies in saving lives. This workshop will be conducted from the Phillips building on the CVTC campus in Eau Claire.

### **Physical Science and the Mathematics Tools that Drive It - Grades 9-12 (CR)**

Presenters: Provided by Texas Instruments

Using TI-83 graphics calculators, Calculator-Based Laboratory systems, and probeware, participants will explore a variety of ways to collect and analyze data from both scientific and mathematical perspectives. Participants will gain hands-on experience collecting data with the CBL and CBR and modeling it with the powerful statistical tools of the TI-83. Participants will investigate traditional and alternative teaching and assessment techniques that utilize technology in a balanced program of reasoning, connections, and communications.

### **Chemistry/Biology Institute - Grades 8-12 (CHI)**

Presenter: TBA

Presented by Teachers Teaching with Technology. Secondary science and math teachers will explore biology and chemistry concepts using the TI-83 graphing calculator, Calculator Based Laboratory System (CBL), and electronic probes. Explore innovative ways to teach concepts and emphasize new ways to collect and analyze data. See how this portable, low-cost technology provides an exciting and effective way to integrate math and science.

### **Hot or Cold? It's Nuclear! - Grades 9-12 (CHI)**

Presenters: Diane Gerlach and Roy Sackscheewsky, Kenosha

What is the big deal about  $E=MC^2$ ? Is it fission or fusion? Is mass really conserved in all reactions? We will explore these questions, examine basic atomic structure, and explore the dynamics of atomic nuclei undergoing transition. We will apply these concepts to the issue of nuclear power generation and the medical use of radionuclides to diagnose and treat disease.

# WASDI Academies 1999

## High School Workshops - Science cont.



### Wanted: Potential Space Station Residents - Grades K-12 (CHI)

Presenter: Judy Beck, LaCrosse

Numerous hands-on activities will illustrate the range of materials and training opportunities available through activity guides, videos, CD ROM's and Internet websites. This course will introduce participants to the opportunities available to educators through the NASA Regional Educator Resource Centers. Participants will leave with plenty of materials to use in their classroom and many more ideas!

### Material World Modules (Smart Sensors & Composites) - Grades 9-12 (CHI)

Presenter: Bob Chang, Evanston IL

As a participant in the Research Experience for Science Teachers (REST) program you will have the opportunity to engage in exciting materials research, and develop a network of scientific colleagues. You will learn the latest scientific and technological developments, and discover ways to transfer this knowledge back to your classroom.

### Rock Camp - Grades K-12 (CHI)

Presenters: Tom Repine, Don Primmer, Deb Hemler, Robert Behling, Paula Waggy & Karen Parlett, West Virginia and Wisconsin

Look at rock, mineral, and fossil samples, take "field trips", and evaluate earthquakes. Construct life size topographical maps, dig for fossils and check out the insects from the Paleozoic era. Explore mineral resources in everyday life and local links to Wisconsin geology. All participants will receive an activity book and tons of great ideas!

### The Application of Hand-held and Computer Technologies in the Teaching of Science - Grades 9-12 (SR Waukesha)

Presenter: Jack Samuelson, Waukesha

Participants in this workshop will be given hands-on experience in using calculator-based lab (CBL) and computer technologies in the collection of scientific data. Teachers will learn how to use CBL's and computers in their favorite lab activities as well as learn about new labs they could incorporate into their teaching.

### Connecting Mathematics and Science - Grades 9-12 (GG)

Presenter: TI Instructor

The primary focus of the CMS institute is collection of data and the analysis of it from both scientific and mathematical standpoints. Participants will gain hands-on experience collecting data with the CBL/CMR and modeling it with the powerful statistical tools of the TI-83. This program is for secondary math, physical science and physics teachers designed around the TI-83 graphics calculator and the Calculator-Based Laboratory System and the Calculator-Based Ranger.

### Watershed Stewardship: Using Scientific Skills and Technology to Address Environmental Concerns - Grades K-12 (GG)

Presenters: Sue O'Halloran, Dr. Mary Balcer, Dr. Jack Zaengle, Dr. Susan Heidi and Jeri Schwerin, UWS and Extension Staff

This workshop will provide teachers with the scientific background needed to understand watershed ecology and will familiarize them with the methods for conducting water quality monitoring. The focus will be on basic watershed hydrology concepts. Participants will gain experience in taking standardized quantitative measurements of water quality. Teachers will be introduced to the Global Learning and Observations to Benefit the Environment program and protocol and activities. This workshop will be in the new Northern Great Lakes Visitor Center with field days provided on-board the UW-Superior research vessel and at local natural resources agencies. Participants will have access to a bus provided for daily transportation to and from the class.

### Bringing Modern Genetics Into the Classroom - Grades 9-12 (GG)

Presenter: Ralph Seelke, UW-Superior

This workshop will provide high school biology and chemistry teachers with a series of exercises that will give students hands-on experience with manipulating DNA. Participants will also use the DNA to transform the genetic make up of organisms and how DNA fingerprinting can be used to identify individuals as well as specific genetic traits in people. As part of this workshop, participants will develop a plan for implementation of the exercises in their classrooms and will examine ways in which these exercises help implement the Standards.



Mathematics, Science and Technology for Teachers



# WASDI Academies 1999

## *High School Workshops - Science cont.*



*Mathematics, Science and Technology for Teachers*



### **Where's the Beef? Real Science for All Students - Grades 7-10 (GG)**

Presenter: Wayne Snyder, Caltech Precollege Science Initiative

In this workshop, participants will increase their awareness and understanding of implementing an inquiry-based science curriculum, analyze and discuss development and implementation of student assessment, increase awareness of the unifying patterns and processes in science and participate in several mini-curricula which represent a cross section of the science content areas and relate the lessons to the areas of standards, curriculum, technology, methodology, and assessment.

### **Criminalistics: An Introduction to Forensic Science - Grades 7-12 (WRVA, W Onalaska & CHI)**

Presenter: James Hurley

Participants in this workshop will examine a one semester high school criminalistics course and the activities involved, survey books and videotapes related to introductory forensic science and perform experiments written as crime scene investigation scenarios.

### **Aerospace Education Services Program (NASA) - Grades 7-12 (ST)**

Presenter: Ralph Winrich, Aerospace Education Specialist

This workshop enables the participant to gain a perspective of Aerospace Education through a hands-on look at the Wisconsin Earth and Space Science standards. At the end of this session, participants will be certified to receive lunar and meteorite samples for classroom use.

### **Science and Standards: A Motley Mix for Student Success in the New Millennium - Grades 6-12 (W Holmen)**

Presenter: Kerry Hogan, Western Wisconsin Technical College, LaCrosse

Participants will become proficient in applying the principles of performance-based instruction while embedding the new Science Model Academic Standards into the curriculum. Topics to be addressed include performance-based instruction, types of academic standards, approaches to embedding the standards, performance assessments, and the high school graduation exam. Effective practices from local practitioners will be shared.





# WASDI Academies 1999

## High School Workshops - Technology



### **Engineering and Material Science: The Next Step Beyond Principles of Engineering - Grades 9-12 (CR - Core Program)**

Presenter: Damon Smith, WASDI Lead Teacher

Are you looking for some new engineering courses for your school? Are you looking for some activities to supplement your existing engineering curricula? What about technology education content which is aligned with the Academic Standards? Curricular content from Project Lead the Way's Introduction to Engineering Design, Digital Electronics, Principles of Engineering, Computer Integrated Manufacturing and Engineering Design and Development will be presented. This National curricula when combined with traditional mathematics and science courses prepares students for the rigor and discipline of engineering. Participants will receive all of the information necessary to supplement their existing Principles of Engineering course or make an informed decision for implementing Project Lead the Way's engineering curricula into existing high school technology programs. All elements of this program implement and reinforce the new technology education rationale and standards.

### **Key For Success: Motivation, Experimentation and Competition - Grades 7-12 (WRVA)**

Presenters: Charles Berben and Mark Vrieze

Boggle your brain with Robo Pong, satisfy your need for economy with a mousetrap-powered vehicle. Cross a chasm with only kite sticks and an ounce of glue. Within lies the problems; you supply the solvent in making them dissolve. Problem-solving activities that have proven to be great incentives in the classroom using technology, math and science.

### **AutoCad R14 Fundamentals and Advanced AutoCad R14 - Grades 9-12 (WRVA)**

Presenter: Thomas J. Whelan

This course will provide participants with a chance to learn how computers and computer-aided drawing programs can improve their current manual drafting program, and prepare students for the challenge of the information age. Be exposed to a variety of challenging exercises utilizing the software AutoCad R14, the most widely used international design program in industry today. All participants will gain hands-on experience with this software which can in turn be incorporated into individual classrooms. Advanced exercises involving Architectural Design, Mechanical Design, and Engineering will be explored.

### **Technology Institute for Educators - Grades K-12 (CHI)**

Presenters: Marie Ellis, WASDI Lead Teacher and Associates

Use technology to enhance learning and address the Wisconsin Model Academic Standards. The format of this program is in three phases-summer institute, follow-up and sharing results. Developed for educators, by educators. Participants must sign up for the 2 credit registration option.

### **Best Practices in Technology Education - Grades 7-12 (SR Waukesha)**

Presenters: Dennis Skurulsky, Waukesha and Alan Gomez, Madison

Participants will have the opportunity to get hands-on experience and evaluate contemporary learning activities from across the nation. Participants will be exposed to engineering case studies, material science experiments, and modular technology activities and projects that contribute to a successful program that will help prepare students for the next millennium.

### **Computer Applications in a Technological World - Grades 8-12 (W Holmen)**

Presenter: Dennis Skurulsky, Waukesha

This workshop will demonstrate the ways computers affect our lives today and will affect our lives in the future. Participants will be introduced to some of the latest applications of the computer world. Workshop participants will receive hands-on training in areas such as voice recognition, artificial intelligence, robotics, multimedia, CAD, CNC, the Internet, importing and exporting audio and video with computers, and the associated software programs.



Mathematics, Science and Technology for Teachers



# WASDI Academies 1999



Mathematics, Science and Technology for Teachers



## ***Integrated Workshops All Levels***

### **Making Standards Work - Grades K-6 (SR West Allis)**

Presenter: Dr. Douglas B. Reeves, Center for Performance Assessment, Denver, CO

This workshop will provide opportunities to implement standards into classroom instruction, design performance assessments, design and construct scoring guides and learn how grading and standards work together. This will be a practical, interactive workshop where participants will actually design performance assessments based on the Wisconsin Standards.

### **CO-NECT: Project-Based Teaching and Learning - Grades K-12 (SR West Allis)**

Presenter: Karen Powell, CO-NECT Schools

During this workshop, participants will explore and find answers to these central questions: How do we ensure that hands-on projects and other such activities lead to real learning? What should be the relationship between project work and other instructional modes (such as traditional teacher-led classes)? In what ways, if any, should projects involve students in activities beyond the school walls? How do we prepare teachers and students to engage successfully in challenging, project-based, student-centered work? This workshop will revolve around four main areas: Student-Centered Conversations, Characteristics of High Quality Projects, Integrating Project Work and Basic Skills, and Community Involvement. This workshop is for teachers and schools participating in Project CO-NECT.

### **Music and Technology - Grades K-12 (SR West Allis)**

Presenter: Julie Stringer, West Allis

This workshop will introduce the user to exciting and engaging computer music programs. Explore composing, sequencing, keyboarding and composition. Student utilization will be emphasized. Content and activities will involve MIDI interfaces, computers and keyboards. This workshop will utilize the MIE program.

### **Dimensions of Learning - Grades K-12 (GG)**

Presenter: Diana Pearson, Kenosha

Dimensions of Learning is an instructional framework based on the best of what researchers know about learning. Its premise is that five types of thinking are essential to successful learning. Dimensions offers teachers instructional strategies and a model for planning standards-based curriculum, instruction and assessment taking into account all five critical aspects of learning. Participants will interpret the model's potential as they experience the dimensions through interactive activities.

### **Youth Service Learning - Grades K-12 (GG)**

Presenter: Carol Klopp, CESA 2

Youth Service Learning is an instructional strategy that engages students in identifying a need in the community, proposing and implementing a strategy to address the need and evaluating the impact of this work in meeting the need. Participants will be able to develop a Service Learning Strategy that can be incorporated into curriculum, design evaluation and reflection activities that can be used as assessment tools to determine students attainment of academic standards and engage students in a decision making process that allows them to link academic work in the classroom to the world outside of school.

### **Performance Assessment - Grades K-12 (GG)**

Presenter: Susan Udelhofen, Education Consultant

This workshop will help teachers understand that assessment literacy is dependent upon an understanding of current sound assessment practices and ways they are intricately interwoven into instruction. Participants will learn the principles of sound assessment and how to create performance assessment, and the framework for valid, informative, quality assessment connected to curriculum and standards. The process of creating scoring guides (rubrics) for these assessments will also be covered.

### **IIPS, - Innovation, Invention and Problem-Solving - Grades 6-12 (W Onalaska)**

Presenters: Ron Fisher, Holmen, WASDI Lead Teacher and Jay Ruetten, LaCrosse, WASDI Lead Teacher

IIPS is an activity-based journey into the realm of innovation and invention. Integrate this experience directly into your math, science and tech ed courses. Provide your students with proven activities that incorporate standards-based instruction. **Not only hands-on, but minds-on and fun, too!**

# WASDI Academies 1999

## *Integrated Workshops All Levels cont.*

### **Linking Assessment, Curriculum and Learning: Building a Standards-Based, Student-Centered Curriculum, August 2-3 and Creating Assessment Systems in Student-Centered Learning Environments August 5-6 - Grades K-8 (W Onalaska)**

Presenter: Eileen Griffin, Griffin Center for Human Development

On Monday and Tuesday this workshop will address the real need to translate and integrate the standards into meaningful, relevant and active curriculum. Participants will focus on the thought processes, skills, and strategies needed to implement Standards-Based, Student-Centered Curriculum, Integrated Thematic Units of Study, Core/Knowledge Curriculum, Prioritized Curriculum, and the Project Approach will be shared as ways to engage both students and teachers in worthy, enjoyable, and meaningful work. Participants will also attend the Wisconsin Multiage Conference at the LaCrosse Convention Center on August 5-6 (Thursday and Friday). Eileen Griffin will continue with her Washburn Academy focus, offering a keynote address and sectional on "Creating Assessment Systems in Student-Centered Learning Environments."

### **Standards and Assessment: Steps to Success - Grades K-12 (W Holmen)**

Presenter: Jerry Redman, Director, Standards and Assessment Center, CESA 4

The new challenge for Wisconsin schools is to improve student learning and performance. Participants in this workshop will examine the Wisconsin Model Academic Standards, explore various assessment strategies and learn how to document evidence of student achievement. Best practices from local districts will be shared.

### **It's Not Just About Achievement! D.E.P. for the WSAS--Doing More, Expecting More, Producing More - Grades 3-8 (W Holmen)**

Presenters: Barb Field and Sue King, Whitehall

Using your own course materials, lessons, and curriculums, learn and share information about strategies, technologies and current research that work to improve student success across the content areas. Participants will be able to develop and practice classroom techniques that do more, expect more and produce more from their students.

### **Changing Perspectives - Grades K-12 (ST)**

Presenters: Nancy Berkas and Cynthia Pattison, NCREL

This workshop allows an entire school team access to an excellent collection of resource materials along with an interactive CD ROM that can be used within their district setting to develop an individual school improvement plan.

### **Creating Independence Through Student-Owned Strategies (CRISS) - Grades 4-12 (ST)**

Presenter: Connie Russell

This three-day one credit event will outline the principles and philosophy of CRISS which provides strategies for presenting CORE knowledge through active listening, reading and learning. Discussion and instructional conversations will focus on topics integral to CRISS.

### **Standards, Assessment and Your Classroom - Grades K-12 (ST)**

Presenter: TBA

This session will provide general and special education teachers a forum to come together and develop models that meet the needs of all students. Emphasis will be on strategies relating to the Wisconsin State Performance Standards, WSAS, the IEP, and alternate and alternative assessment and the IEP will be emphasized.

### **Brain-Based Research - Grades K-12 - (ST)**

Presenter: David Sousa

This is a rare opportunity to work up close and personal with this nationally recognized authority on brain-based learning. Former Chemistry Teacher and Superintendent, David Sousa has written several successful books and will be working with participants on how to integrate his ideas into their own classrooms.

### **Rethinking Social Studies Education - Grades 9-12 (W Holmen)**

Presenter: Paul Rykken, Black River Falls

Practical methods of implementing and assessing the model academic standards in social studies will be the focus of this workshop. After examining the standards themselves, various teaching techniques will be explored with an emphasis on the constructivist approach.



*Mathematics, Science and Technology for Teachers*



# WASDI Academies 1999

## *Integrated Workshops All Levels cont.*

### **Healthy Environments for Teaching and Learning - Grades PreK-12 (W Holmen)**

Presenter: Sponsored by CESA #4 Prevention Wellness

A healthy environment for teaching and learning exists within a school when the culture and climate support the physical, mental, emotional and social well being and safety of both teachers and learners. This workshop brings together three recognized presenters speaking on topics related to optimum learning environments. Team Building with Mike McGowan; Standards, Effective Class Instruction and Healthy Choices with Dr. Joan Oganowski and Educare: Brain-Compatible Teaching and Learning with Tim Burns.

### **Colleagues in the Classroom - Grades PreK-12 (W Holmen)**

Presenter: Pam Foegen, LaCrosse

This workshop is designed to provide teachers with the information they need to work more effectively with pareducators and other support personnel in the classroom setting. The purpose of the workshop will be to enhance the working relationships of classroom personnel so that instruction to students is consistent and effective, classroom activities are well coordinated and the stress that sometimes develops between adults in the classroom is decreased.

### **Assistive Technology in the Classroom: Software, Strategies, and Solutions - Grades PreK-12 (W Holmen)**

Presenter: Mary Wirkus-Pallaske

This workshop will provide philosophies, strategies, implementation methodologies, and hands-on opportunities with a variety of assistive technology. Hardware and software supports for a broad array of subject areas including reading, written communication, handwriting, math, science, as well as communication, alternate computer access, vision, hearing, learning/studying, recreation and leisure, mobility, and environmental control and other areas of adaptations will be explored.

### **The ART of Teaching Gifted Students in the Regular Classroom - Grades K-8 (W Holmen)**

Presenter: Alice Moersch, Northfield MN

In this workshop, teachers will learn basic strategies which will make this difference easily attainable (and survivable!) The concepts will include "Attitude" for Successful Differentiation (A); "Respect" for Students' Interests and Strengths (R); and "Techniques" and Tricks for Meeting All Students' Needs (T). That's the ART of teaching gifted students in a regular classroom!

### **Essentials of Mentoring - First Steps - Grades K-12 (W Holmen)**

Presenter: Fred Poss, Eau Claire

In this workshop, the basics of establishing successful mentoring - all of the necessary program, policy, liability, contractual, and people issues - are examined in detail. Active learning lessons will guide participants in developing the initial legal safeguards and win/win approaches to the critical **first steps** of doing mentoring the right way. This first of a two-course sequence provides the strategies, safeguards, and resources it will take to meet the requirements of the new laws being developed in the state legislature.

### **Mentoring - The Next Steps - Grades K-12 (W Holmen)**

Presenter: Cathy Atkinson, Waukesha

In this workshop, participants confront **in-depth** the challenges of actually having to guide and to change beginning teachers. Using knowledge and resources gained as veteran teachers and mentors, participants will be able to expand their people skills and negotiating strategies.

### **Business World - Grades K-12 (W Holmen & CHI)**

Presenter: Jim Morgan, Wisconsin Manufacturers & Commerce and Larry Cozad, UW-LaCrosse

This workshop is modeled after and offered in cooperation with the successful Business World program sponsored by Wisconsin Manufacturers & Commerce for educators to experience regional businesses and industries. Through tours of companies, interaction with local business leaders and small group activities, participants will learn about the economic conditions and challenges of Wisconsin companies.



# WASDI Academies 1999

## *Integrated Workshops All Levels cont.*

### **"I" is for Math, Science and Technology Education - Grades K-2 (CM, CR, SR West Allis & W Onalaska)**

Presenters: Rosanne Cowan, McLane School, West Bend, WASDI Lead Teacher

Candy Nerge, Crestwood Elementary, Madison, WASDI Lead Teacher

This course invites K-2 teachers to implement numerous hands-on activities that integrate language arts, math, science and technology education. You will engage in purposeful activities that match the NCTM and NSES standards to take back to your classroom on time to start the school year, learn how to structure similar inquiry based learning activities, incorporate quality children's literature, design authentic assessments and integrate these into your curriculum and investigate a theme a day the math, science and technology way.

### **Wings, Wheels and Wonderment: An Integrated Process Approach to Science, Math and Technology Grades K-5 (CM) and Grades 2-5 (JM Verona)**

Presenters: Shelly Long and Chuck Paulson, Southern Bluffs Elementary, LaCrosse, WASDI Lead Teachers

Participants will be actively involved in the construction of movable, workable projects. These projects will be integrated within other subjects that occur in a thematic-based elementary classroom with a heavy emphasis in math integration. The course will revolve around constructivist approaches to quality instruction. The life cycle of a butterfly, rubber band power, simple machines, balancing, weighing, sinking and floating and chemical changes will be covered.

### **Shrink Wrap - Grades 1-5 (CM & WRVA)**

Presenters: Mary Richards, Waupaca Learning Center, WASDI Lead Teacher

Debra Wood, Grove Elementary School, Wisconsin Rapids, WASDI Lead Teacher

Shrink Wrap will provide methods and hands-on models and how to package your lessons reflecting the multiple intelligences. We will discuss standards, relate literature to math, science and technology activities, distinguish between ed tech and tech ed and experience technology as a learning/teaching tool.

### **Tech-Talk: Developing Technical Communication Skills - Grades 6-12 (CM, ST & CR)**

Presenter: Jim Adams, Chetek High School, Chetek, WASDI Lead Teacher

This course is designed for teachers interested in helping students develop communicating skills. Areas of emphasis include reading, writing, speaking and presenting technical material. Participants will learn how to help students describe motion, read and write technical information use illustrations, and make presentations. This course will model various group activities as well as use word processors, spread sheets and presentation software such as PowerPoint. We will develop at least one classroom communications activity each day.

### **A World in Motion II: The Design Experience - Grades 6-8 (CM)**

Presenter: Sandra Swietlik, WASDI Lead Teacher

Teachers will work with this ground-breaking curriculum unit (developed by the Educational Development Center) to design, build and market a new toy. Participants will receive a "Request for Proposal" from a fictitious toy company, "Mobility Toys," asking them to submit designs for a motorized toy vehicle that can be marketed to a 6 to 10 year old population. Professionals from the engineering field work side by side with teachers. The challenge culminates in final presentations to the "Mobility Toys" reps.

### **Teaching with Diversity - Grades 3-9 (SR - Waukesha)**

Presenter: Bob Friedel, Consultant, Burlington

This workshop will concentrate on the most stimulating and thought-provoking science, mathematics and technology concepts considered essential for educational excellence in today's schools. All activities and concepts will be referenced to state and national standards of instruction and content. Weather, air pressure, density, surface tension, the center of gravity, magnetism and electricity, recycling and the environment, plus additional integrated topics will also be investigated with their applications for classroom instruction. Participants will receive packets of ideas, tips and plans as how to integrate mathematics, science and technology concepts into the curriculum.

### **Cutting Edge of Special Education - Grades Early Childhood - 12 (SW)**

Presenters: CESA 3 Special Education Department

The following areas will be covered during the week in this workshop: changes in IDEA, modifications of the general ed curriculum, nuts and bolts of IEP's, assistive technology, test taking accommodations and alternative assessment and inclusion.



*Mathematics, Science and Technology for Teachers*



# WASDI Academies 1999



## ***Integrated Workshops All Levels cont.***

### **Exploring Science & Math With Young Children -Grades Pre-K-1 (SW)**

Presenters: Jane Maki and Cathy Burge, Port Edwards School District and Jackie Wilhelmi, Pittsville School District

This workshop will explore appropriate development curriculum for young children in the areas of science and math. Participants will engage in a vast array of activities that can easily be transferred into their own curriculum and classrooms. We will explore ways to teach young children science and math concepts using children's literature, Big books, manipulatives, "hands-on, minds-on" activities, the new standards based math curriculum, thematic units, the alphabet and many wonderful resources.

### **Creating and Balancing Best Practice Principles in a Literacy Framework - Grades K-3 (SW)**

Presenter: Cynthia R. Terrill, Pecatonica Schools

This one week workshop will compare and contrast past reading methods with the newer literacy practices supported by research. Participants will be asked to analyze their current programs and to create an action plan that will reflect their new knowledge. All key components of a balanced literacy program will be presented. Participants will spend the majority of each afternoon collaborating and creating materials that will improve the management and the quality of literacy activities in their classrooms. Projects might include poetry boxes, task board for literacy centers, book leveling, phonemic awareness activities, interactive writing charts, alternative assessments, reader's theater selections, home/school connections, etc.

### **M.A.G.I.C. of Thinking and Teaching Better - Grades 3-9 (SW)**

Presenter: Bod Budgins, Glendale, WASDI Lead Teacher

Making activities genuinely interesting consistently for your students is the promise and focus of this workshop. The purpose of this mind-enhancing, hands-on workshop is to give participants an informed overview of current research of brain compatible instruction and how it pertains to teaching science, math and technology. Participants will use constructivism in a baggy to see the part constructivism plays in concept attainment. We will create and format interactive reflection journals that improve student emotional intelligence by fostering thinking. Participants will be expected to create hands-on teaching activities that demonstrate brain-based teaching and share them with workshop members for critique.

### **Hooked on Learning - Grades 2-5 (SW)**

Presenter: Kathy Romsos, Denmark Elementary, WASDI Lead Teacher

This workshop will explore how to make learning meaningful by involving your students in a variety of hands-on, problem-solving activities that will enhance your existing curriculum. Participants will experience first hand how pupils develop and apply their knowledge when drawing, planning, designing, problem solving, building, testing and improving their solutions to problems. Participants will learn to develop and plan activities that integrate constructivist and cooperative learning beliefs, use inexpensive and easy to find supplies, and allow for the multiple intelligences of students. Activities will include building towers, cars, and roller coasters; launching rockets, using literature to design projects and creating your own activities to take back to your class.

### **Teaching the Whole Child: Dimension of Learning - Grades K-8 (NW)**

Presenter: Pat Tynaitis, WASDI Lead Teacher

Explore and develop a new framework for a learning-centered education for your K-12 classroom. Dimensions of Learning can provide a thinking and doing framework for instructional planning and curriculum design. You will be provided with a practical way to transform traditional schooling into a learning-doing centered approach, shaping a holistic view of the learning process.

### **Writing on Demand - Grades K-12 (JM Verona)**

Presenter: Denise Wenger, Ph.D., Consultant, Pewaukee

Writing On Demand takes the mystery out of teaching Writing On Demand for K-12 teachers. It explores the needs of learners as On Demand writers, and it provides the nuts and bolts that teachers need to prepare K-12 learners for writing tasks required by Wisconsin State Writing Assessments (WSAS) at grades 4, 8, 12. It engages teachers in activities that expand their understanding of learners' needs, helps teachers develop "eyes to see" structure in writing, and helps teachers learn to use probes, prompts and cues to prepare learners for writing on demand assignments. Teachers experience a menu of models and systems they can adapt for their own classrooms. They plan hands-on Writing On Demand training they can use to help their students meet and exceed WSAS writing standards at any grade level and share their plans with colleagues.



# WASDI Academies 1999

## ***Integrated Workshops All Levels cont.***

### **Integrating Multiple Media: Investigate, Celebrate and Explore Wisconsin - Grades 4-5 (JM Williams Bay)**

Presenters: Linda Hanson, Director, Instructional Production & School Services, WECB - Madison  
Peggy Garties, Multimedia Analyst, WECB - Madison

The focus of this workshop will be to integrate multiple technology resources (video, CD-ROM, internet) to engage students in learning about Wisconsin. Participants will work in teams to construct student-centered learning experiences. Teachers will have access to the internet, the CD-ROM Wisconsin: Celebrating People, Place and Past, instructional television series Investigating Wisconsin History and Exploring Wisconsin Our Home and many other resources. All of the resources used by the teachers will be directly correlated to a specific performance standard from the Wisconsin Model Academic Standards for Social Studies.

### **The ABC'S of Grantwriting and Resource Networking - Audience Administrators, Interested Educators (JM Verona)**

Presenter: Dr. Eric Smith, CESA 2 Dane County Director, Madison

Each participant in the ABC's Seminar will be presented with a wealth of practical ideas plus a complete resource binder to use back home. Tips range from writing techniques, to finding the right grant, to learning about what grant readers look for in reviewing a grant. Specific techniques to plan will be highlighted. The seminar is lively, informative, and focused on the needs of the educator with little or no grant writing experience.

### **Assessment Workshop: Investigating Mandated Standardized Tests, Portfolios as a Learning Tool and Assessment - Grades K-8 (WRVA)**

Presenters: Faye Miller and Mary Lou Harris-Manske

This workshop is designed for teachers who are interested in preparing students for mandated standardized tests and how to interpret results to parents and the public. Teachers will also explore how portfolios can enhance assessment and classroom practices. Participants will have the opportunity to develop strategies and rubrics that can be easily integrated into current instruction and a variety of curriculum areas.

### **Unlock the Door: Open the Communication - Grades 3-6 (JM Williams Bay & WRVA)**

Presenters: Jan Drehmel, Parkview Elementary, Chippewa Falls, WASDI Lead Teacher and  
Janet Alekna, Grove Elementary, Wisconsin Rapids, WASDI Lead Teacher

This workshop is designed to get you, your students, and parents involved in meaningful activities based on math, science and technology standards. Activities are versatile enough for parents and students to explore in a school or home setting. Research shows that these kind of connections strengthen relationships between parents, teachers, students, and the community. Workshop leaders will share their experiences with implementing home-school connections: problems, successes, promotions, and activities.

### **Leadership Workshop for Building Effective Family Involvement in Early Childhood..Math and Science - Grades PreK-2 (WRVA)**

Presenter: Marta Larson

Playtime is Science (PS) and Family Math for Young Children (FMYC) are model programs that are nationally recognized for their excellence in math and science education, their ability to involve hard-to-reach parents, and their focus on providing educational opportunities for girls and children from cultural groups that are traditionally under-represented in the skills scientific workforce. These models incorporate hands-on activities which foster a cooperative learning environment for families to approach math and science as a fun, everyday event in which anyone can participate. This leadership workshop will help teachers and school staff facilitate family classes in their own communities. Class participants will be eligible to earn additional credit from UW-Stout for leading parent-child workshops using materials and lessons from this course. Participants are asked to attend as part of a team that includes a minimum of three persons from the same school.

### **In-Tech-Great!! - Grades K-6 (WRVA & W Onalaska)**

Presenters: Stefanie Boggs and Bill Giese, WASDI Lead Teachers

Learn strategies to enliven your elementary classroom! Science, math, and reading strategies which cause students to THINK as they utilize a hands-on, problem-solving approach will be presented. Leave with ideas that are easily implemented in your classroom. This fast paced hands-on workshop will allow teachers to become familiar with the new Technology Education State Standards through engaging activities they can emulate in their own classrooms. Participants will be required to produce finished projects and participate in the design process. Additionally, a written theme-based unit based on the participants' grade levels will be assessed and presented at week's end.



*Mathematics, Science and Technology for Teachers*



# WASDI Academies 1999

## *Integrated Workshops All Levels cont.*

### **Adventure in the Classroom - Grades K-12 (WRVA)**

Presenter: Dave Lockett

The primary thrust of this course is to provide teachers with instructional techniques and applications of adventure learning. Individuals will become acquainted with a variety of adventure activities that can be used in the classroom. They will also be provided with an opportunity to participate on a high and low ropes course. Seminar discussions will focus on the foundations of adventure education as well as philosophical issues including experiential learning theory, risk taking, and the aims of adventure education.

### **Developing Multiple Intelligence Learning Kits for Interactive Teaching - Grades K-12 (WRVA)**

Presenters: Dave Masterson and Jon Griffith, WASDI Lead Teachers

Have you ever found a way to reach each individual students? You know, find out what they learned in their own way? This workshop is geared towards helping participants identify students' intelligence (learning style), developing standards-based activities that use students' intelligences, and developing assessment tools that use those intelligences effectively to display what the student has learned.

### **Weird and Wacky Ways to Integrate Science and Math - Grades 4-6 (WRVA)**

Presenters: Sue Hall and Betsy Muhvic

Put on your lab coats and become a super sleuth as we investigate innovative problem-solving activities. Participants will discover new ways to integrate science and math with literature, social studies and art. Get ideas on using mysteries, inventions and problem-solving techniques that meet national standards that can be recreated in your classroom.

### **TI CMS (Connecting Math and Science) - Grades 9-12 (WRVA)**

Presenter: Provided by Texas Instruments

This institute is a week-long professional development program for secondary mathematics, physical science and physics teachers designed around the TI-83 graphics calculator and the Calculator-Based Laboratory System (CML), a calculator interface used to collect data through probes or sensors, and the Calculator-Based Ranger (CBR). The primary focus of the CMS institute is collection of data and the analysis of it from both scientific and mathematical standpoints. Participants will gain hands-on experience collecting data with the CBL/CMR and modeling it with the powerful statistical tools of the TI-83. Working in groups, teachers will use this knowledge to develop a lesson focusing on the integration and connection of mathematics, physical science and physics.

### **Resiliency: Schools and Students Working Together - Grades K-12 (NW)**

Presenter: Kathy Druেকে, Brookfield School District

Students will explore the concept of resiliency as it relates to the development of children and adults, their problem solving and goal setting strategies and resiliency's impact on the school system. Research on resiliency and the 40 assets will be used to incorporate proactive classroom methodologies that will promote resiliency in the school learning environment. The text for this class will be Henderson and Milstein, "Resiliency in Schools."

### **Milk It! Multiple Intelligence Learning Kit Through Interactive Teaching - Grades 1-6 (CHI) Grades K-12 (GG)**

Presenters: Dave Masterson, Stevens Point, WASDI Lead Teacher (CHI)

Dave Masterson, Stevens Point and Jon Griffith, Spooner, WASDI Lead Teachers (GG)

We are all aware of brain based and multiple intelligence learning. How do you assess what students are doing effectively? As a result of this workshop you will know what the seven intelligence's are and how to identify each students learning style; develop standards based activities based on those learning styles; and develop tools to provide authentic assessment of student learning.

### **Integrating Multi Media and the Wisconsin Standards Into Social Studies - Grades 3-6 (ST)**

Presenter: Trish Graves, CESA 11

The focus of this three-day workshop will be to integrate media and technology resources that actively engage students in learning. The specific emphasis will be on instructional broadcasting programs (NIBS) that emphasize US and Wisconsin history. Educators will work in teams to construct student centered learning experiences that are aligned with the state standards.



# WASDI Academies 1999

## *Integrated Workshops All Levels cont.*

### **Brain Friendly Classroom - Inside and Out - Grades 1-6. (NW)**

Presenters: Kris Dimock, Bloomer Schools, WASDI Lead Teacher and Pat Rahn, Chippewa Falls School, WASDI Lead Teacher

Research says that most of our students are only using between 1% and 20% of their brain's capacity. Research has also found that our students see no relevant connection between what we teach and what is happening in their daily lives. Research has found that we can expect to have our students' attention for only 20% of the time that they are with us. If these facts alarm you, this workshop is for you! By involving your students in hands-on activities you will increase their power to learn. Combining that power with brain strategies and inquiry based activities will foster a classroom where minds are always turned on.

### **Technology and the Future Work World - Grades K-14 (NW)**

Presenter: Dr. Donald D. Jorgenson, Marian College

This is a hands-on course which will involve a workshop format and field trips to area employers. Participants will gather information that will be useful in their schools for students, parents and other educators and enhance their ability to help implement School to Career programs in their schools. They will also better appreciate the important role educators can play in the career development of their students as well as appreciate the needs of business and industry and the changes that are taking place in the world of work.

### **The Seven Habits of Highly Effective People - Grades K-14 (NW)**

Presenters: Jolene Johnson and Ginny Leith, Nicolet Area Technical College

The Seven Habits course introduces a process that combines character building with good management practices. The course teaches "Inside-Out" improvement, focusing on developing trust, commitment, empowerment, self-management, teamwork and synergy. Practice of the Seven Habits can make your life more effective in both your personal and occupational relationships. Participants will learn to deal effectively with challenges common to all organizations.

### **Creating a School Climate for Student Success - Grades K-14 (NW)**

Presenter: Melissa Keyes, Ph.D., Keyes Consulting Inc.

In this workshop, participants will develop a process for ensuring that all students are able to learn in an environment that is safe and supporting. The framework presented in this workshop will allow for participant vision, assessment of a school site, planning for change and implementation and evaluation strategies designed to maximize learning for the maximum number of students. Attention will focus on equity in school climate, instruction and curriculum.

### **Technology in the Classroom: The Teaching Tool for the 21st Century - Grades 3-9 (JM Williams Bay)**

Presenter: Bob Friedel, Consultant, Burlington

This workshop will help you engage and excite your students with the science and math of technology. The topics of digital information, computers, photography, science and math standard concepts, and the world of solutions will be explored. A special session on "the world of instant photography" will be presented. Computer lab time will be provided with instructional guidance for classroom application. Information and free materials will be given out from over a dozen sources to help spark student learning.

### **Internet and E-mail for Everyone, Beginner Level - Grades K-12 (CHI)**

Presenter: Collin Csuy, Wausau, WASDI Lead Teacher

Navigate the internet, create a web page and examine issues related to internet use in the classroom. Self-paced tasks will lead to mastery of e-mail and internet skills. Participants will have practice using math, science, and technology standards to design internet-based classroom lessons.

### **Internet and E-mail for Everyone, Advanced Level - Grades K-12 (CHI)**

Presenter: Aaron Trautwein, Carthage College, Kenosha

Learn how to design and construct web pages using Netscape Communicator and how to use e-mail. Participants in this workshop will learn how to incorporate their own web pages and student designed web pages into traditional lesson plans. Participants in this workshop will learn how to navigate the world wide web using Netscape Communicator, evaluate search engines to find "good sites", create web pages for instruction and student enrichment and become aware of some of the concerns both parents and community groups have regarding the internet.



*Mathematics, Science and Technology for Teachers*



# WASDI Academies 1999

## *Educational Technology Workshops - All Grade Levels*

### **Enhancing Teaching with the Internet - Grades K-12 (JM Williams Bay & GG)**

Presenter: Andrew Kuemmel, Edgerton High School, Edgerton, WASDI Lead Teacher

In this workshop K-12 teachers from beginners to experts will learn how to effectively infuse the internet into their existing curriculum. A course web page will be maintained throughout the following year to demonstrate course projects and to give updates on new sites.

### **Getting Connected - Linking and Webbing Your Classroom - Grades K-12 (JM Verona & WRVA)**

Presenter: Steven Stevenoski, Wisconsin Rapids, WASDI Lead Teacher

This workshop is intended to be a hands-on, experiential institute with teachers interested in designing and implementing cross-disciplinary units that allow students the freedom and the opportunity to solve real world and highly complex problems using computers, the internet and other low cost digital technology. The workshop will be conducted in three parts: 1) Learning the language of the internet and computers; 2) Putting the computer to work in the classroom and; 3) Navigating the internet.

### **HyperStudio in the Classroom - Grades 4-12 (WRVA)**

Presenter: Tony Gordon

Bring multi-media into your classroom by adapting your existing projects for use with HyperStudio. HyperStudio is multimedia authoring software based on the metaphor of index cards. Each slide created is called a card. A group of cards is called a stack. A stack operates in much the same way a Web site does. A hands-on approach will be employed during this course to ensure participants will have enough knowledge to use the program in a classroom setting. Skills such as importing pictures, recording sounds, and overall HyperStudio stack development will be covered.

### **Lights, Camcorder, Action! - Grades 7-12 (CR)**

Presenter: Jim Schmitt, WASDI Lead Teacher

Bring "Wheel of Fortune", "Monday Night Football", bungee jumping, shooting baskets, driving cars, and a variety of other real-life activities into your classroom with the use of a camcorder and VCR. This method of data collection can easily be used to study motion in the physical science classroom and the modeling of mathematical functions in the math classroom. During the week, participants will learn how to master this data collection technique, discuss assessment techniques, as well as make and share supporting materials to assist the immediate implementation of this strategy in the classroom

### **Communication Electronics - Grades 7-12 (WVRA)**

Presenter: Todd Vander Loop

Experience the ins and outs of running a cable access T.V. channel. Participants will take over the daily operations of Channel 99 and the electronics projects completed in the class, Communication Electronics. This is a hands-on workshop that will expose you to video (editing, production, broadcasting, etc.) and the electronics that make it all possible.

### **ClarisWorks for Teachers - Grades K-12 (CHI)**

Presenter: Mary Salani, Kenosha

Introduction to word processing, graphics and slide show features of ClarisWorks. Use the tools in the tool palette to create, select, move, resize and reshape objects. Learn about a ClarisWorks document and how to enhance text with graphics, make and modify ClarisWorks templates and create your own templates for your classroom. Teachers will also learn how to use a spreadsheet to create a chart for use in a word processing document or to use the database to create a form letter.

### **Just the Facts! Ways Primary Children Read and Write Information Books! - Grades 1-2 (JM Verona)**

Presenter: Margaret Jensen, Hugel Elementary School, Madison

Let's look at the information books available for emerging and developing readers. Which ones are great read-alouds, independent and/or guided reading selections, and books for browsing? What are the criteria we should use to evaluate these books? How do we help children build the vocabulary needed to understand new information. How do we help them gain important word identification and comprehension strategies? We will explore all of the issues and develop materials to use next year in our classrooms!



# WASDI Academies 1999

## ***Educational Technology Workshops - All Grade Levels cont.***

### **MultiMedia & The World Wide Web: Become a Player - Grades 4-12 (CM & SR West Allis & JM Verona)**

Presenter: Greg Quam, Platteville High School, Platteville, WASDI Lead Teacher

This course will help educators develop new tools and strategies for integrating multimedia and the World Wide Web into their classrooms. Participants will have input into this course by using the World Wide Web and interacting with the instructor prior to the course. PowerPoint, digital photography, digital video, hyperstudio, virtual reality and QuickTime movies will be used.

### **Technical Applications of Computers: A New Way to Look at Communications Curricula - Grades 7-12 (CM)**

Presenters: Damon Smith, Eau Claire, WASDI Lead Teacher

Jim Machamer, Weyauwega, WASDI Lead Teacher

This course is for every computer user regardless of computer skills. Starting with a pile of parts, you will have the opportunity to assemble a Windows-based computer from scratch, install the Windows operating system, design and assemble a local area network (LAN), connect it to a wide area network (WAN), utilize the computer for Global Positioning System (GPS), data input, use geographic information system (GTS), data manipulation, experience computer controlled machining (CNC), and learn about HTML and very basic programming.

### **Creating a Web Page I - Grades K-12 (SR West Allis)**

Presenter: Lori Tanner, Waukesha

This workshop offers clear, easy-to-follow instruction that will take you through the process of designing, developing and publishing a web page step-by-step. It is perfect for the beginner, with no knowledge of HTML or the World Wide Web, who wants to create web pages. You will learn the basics of design, "surf-the-net" to find good examples and then design your own pages.

### **Effective Use of the Computer-Even in a Stand Alone Setting - Grades K-2 (SR West Allis)**

Presenter: Maggie Paoletti, Cummings, GA, WASDI Lead Teacher

This workshop is designed to emphasize the use of software in your classrooms. Explore a variety of programs and develop activities related to your curriculum. Integrate all curricular areas through the use of the computer. Learn how to use tables as a tool to help in all your record keeping. Create a class video book through the use of PowerPoint or Kid Pix Deluxe. All levels of learning are welcome!

### **Integrating the Internet into the K-12 Curriculum - Grades K-12 (SR West Allis)**

Presenter: Christine Long, West Milwaukee Middle School

Workshop participants will learn the features of Internet browsers such as Netscape and Microsoft Internet Explorer. You will explore many search engines and search techniques for use by students and teachers and will be given the opportunity to visit many educational sites. A listing of sites will be provided by specific age levels and subject areas. Time will also be provided to search for additional sites of interest. This workshop would be valuable for the beginner, intermediate or advanced internet user.

### **Creating a Web Page II - Grades K-12 (SR Waukesha)**

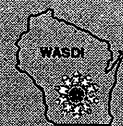
Presenter: Lori Tanner, Waukesha

This workshop offers clear, easy-to-follow instruction that will take you through the process of designing, developing and publishing a web page step-by-step. It is perfect for the beginner, with no knowledge of HTML or the World Wide Web, who wants to create web pages. You will learn the basics of design, "surf-the-net" to find good examples and then design your own pages.

### **Computer Projects Using Microsoft and PowerPoint (Advanced Level) - Grades K-12 (SW)**

Presenter: Sondra Ostheimer, SWTC

Since this workshop is for advanced computer users, most of the time will be spent developing materials for use in the classroom. The instructor will be present to assist individuals with specific problems and questions as participants work on their projects. Participants are to arrive at this workshop with materials they need to develop their projects and by the end of the week will have completed at least one project. Participants must have taken one of Southwest Academy's previous computer workshops or receive other training in the use of Microsoft Word and PowerPoint. Participants **must** have prior experience with both software programs and be ready to produce materials for classroom use.



*Mathematics, Science and Technology for Teachers*



# WASDI Academies 1999



## ***Educational Technology Workshops - All Grade Levels cont.***

### **Computers in the Classroom - Grades K-12 (SW)**

Presenter: Joy Kite, SWTC

Get hands-on experience learning basic to advanced features of Microsoft PowerPoint to develop a non-screen computerized slide show complete with transition effects. Develop great-looking overheads, and print various handouts from the presentation for you and your students. Participants will receive handouts. Create tests and a hidden answer key easily using Microsoft Word 97. Develop step-by-step instructions for projects and assignments and then watch how much fun it is to change your mind. Learn how to create great looking memos, letters, faxes, resumes, agendas, calendars and other documents easily. Based on the highest vote getter, gain additional hands-on experience in learning additional software/features (e.g. Microsoft Excel for grades, tables in Word for lesson plans or rubrics) or hardware devices (e.g. scanner, digital camera).

### **Computer Basics and Teacher Productivity Tools - Grades K-14 (NW)**

Presenter: Mary Lou Ley, CESA 9

Wow your students with presentations where words fly across the screen. Create data bases, labels and mail merges where you can easily send individualized letters to parents and students. Make fun signs, posters, charts and tables for classroom use. Learn general computer skills that make life as a teacher much easier. A variety of programs, including internet and e-mail will be used. Emphasis will be on application and integration of computer skills into classroom instruction. Demonstrations of peripherals and software will be integrated into the course. No prior experience is necessary-just come with an interest in learning more about computers and their educational applications.

### **The Educational Uses of Cyberspace: Beyond Basics - Grades K-14 (NW)**

Presenter: Nancy Goff, Nicolet Area Technical College

Explore cyberspace by surfing the internet/world wide web using the software browser, "Netscape Navigator Gold," Version 3.01 in Windows 95. E-mail will also be explored using Netscape. Participants will have fun doing a scavenger hunt to help learn how to power search engines such as Yahoo and Alta Vista and meta-search engines such as Dogpile and MetaCrawler. Learn how to narrow searches through the use of Boolean operators/terms. FTP sites where you can download and copy files will be explored along with Gopher sites. You'll get the opportunity to download and save compressed files through an FTP site and unzip or expand them. Teachers will access Usenet newsgroups and learn more about great educational Web sites such as WiscNet K-12, Classroom Connect, and UC Berkeley Library. Learn how to enhance lesson plans by capturing images/pictures or clip art from the internet and inserting them into word processing software.

### **WIDS (Wisconsin Instructional Design System) - Grades K-14 (NW)**

Presenter: Betty Brunell, Wisconsin Technical College System Foundation

WIDS is designed to introduce educators to performance-based and competency-based instruction and to the WIDS software. You will learn how to establish desired performance expectations; specify performance standards, create performance-based assessments, plan learning and teaching strategies that work; align expectations, assessments, and instruction; and design a customized, performance-based course of study using the WIDS Instructional Design Software.

### **Creating a Web Site and Web Page Using Frontpage 98 - Grades K-14 (NW)**

Presenter: Roger Halmstad, NDEN's Web Master

It's time to catch up with the kids a little! But, as we learn to create sites and make pages, let's do it with the structure that we as teachers have been trained to use. This workshop is designed to get you going and even become certified through Microsoft should that be your fancy. Participants in this workshop will learn to create a web site, add a web page, edit a web page, enhance a web page, build a web for user input, and manage a web site.

### **Multimedia Authoring - Grades K-14 (NW)**

Presenter: Margie Albert, Tomahawk School District

This course will allow teachers the opportunity to develop classroom materials using multimedia. Teachers will also develop projects that students can create to communicate classroom content. Equipment used will include AV computers, scanners, digital cameras, video cameras, laser discs, video and CD-ROMs. Software used will include internet, hyperstudio, PowerPoint, Claris Works, Quicktime, Sound Editors, and Digital Photo Editors. Participants in this session should have a good knowledge of basic computer operations.



# WASDI Academies 1999

## ***Educational Technology Workshops - All Grade Levels cont.***

### **Internet Integration - Grades K-12 (SR West Allis)**

Presenter: Heidi Erstad, Milwaukee, WASDI Lead Teacher

This workshop is designed to give K-12 educators up-to-date information on the Internet, World Wide Web and the use of Internet Search Engines. Workshop participants will learn the features of internet browsers such as Netscape and Microsoft Internet Explorer. They will explore many search engines and search techniques for use by students and teachers and will be given the opportunity to visit many educational sites. This workshop would be valuable for the beginner, intermediate or advanced internet user.

### **Office Suite for Educators - Grades K-12 (SR West Allis and Waukesha)**

Presenter: John Sklar, Badger Middle School, West Bend and Cardinal Stritch University

This hands-on workshop covers the basics of spreadsheet construction, the creation of graphs using the Chart Wizard, sorting and filtering data and integrating Excel with other Microsoft Office applications. In this workshop, educators will learn to apply these powerful tools to their classrooms and to their professional tasks as well. This hands-on workshop covers the basics of all three programs as well as the integration of the programs.

### **Using the TI-83 in Secondary Mathematics - Grades 8-12 (SR Waukesha)**

Presenter: Babs Merkert, Waukesha

Participants will explore the use of the graphing calculator to teach a variety of topics from Algebra I through Precalculus. Time will also be given each day for participants to do some problems of their own and to get individual help. We will cover equations and inequalities, polynomial functions, systems of equations, and curve fitting first. Topics chosen will be based on participants' interests.

### **Using HyperStudio to Create Assessment Tools - Grade Level 3-12 (SR Waukesha)**

Presenter: Chuck Gevaert, Waukesha

This workshop is designed to increase a teacher's knowledge and implementation of HyperStudio. This workshop will contain hands-on activities in creating text, graphics, sound, animation, and QuickTime movies. With the skills learned through these activities, teachers will create a portfolio assessment stack which can be used in their classroom.

### **Assembly and Trouble Shooting of Computers - Grades K-12 (SR Waukesha)**

Presenter: Lenny Young, Muskego

The intent of this workshop is to provide hands-on experience in the assembly of computers and in trouble shooting computers that may not function properly. Participants will be given the opportunity to build their own computer and to assist someone else in assembling a computer. The instructor will provide step-by-step instructions and answer all questions during assembly of the computers. A special high tech tour complements workshop activities.

### **Multimedia Wisconsin in the Apostle Islands - Grades 4-5 (GG)**

Presenters: Linda Hanson and Peggy Garties, Wisconsin Educational Communications Board

The focus of this workshop is to integrate multiple technology resources to engage students in learning about Wisconsin. Educators will work in teams to construct student-centered learning experiences. All of the resources used by the teachers will be directly correlated to a specific performance standard from the Wisconsin Model Academic Standards for social studies. As a result of attending this workshop, teachers will come away with integrated, technology-rich classroom units for the study of Wisconsin history, geography, government and culture.

### **Gathering Together-Gitche Gume: Integrating Digital Archive Resources Into the Classroom**

#### **Environment - Grades 4-12 (GG)**

Presenters: Andrea Pokrzywinski, CESA 12, Frank Koehn, South Shore and Alexandra Smith, HUP Multimedia

This workshop will introduce educators to digital archive resources which are available through multimedia CD-ROM and Internet. Participants will experience firsthand how to integrate these resources into classroom instruction while addressing the Wisconsin State Standards for social studies, science and information and technology literacy. Special emphasis will be placed on digital resources which address the topics of social, historical, cultural and environmental issues concerning Lake Superior.



# WASDI Academies 1999



## ***Educational Technology Workshops - All Grade Levels cont.***

### **Lights, Action...Multimedia - Grades 3-12 (W Onalaska)**

Presenter: Dan King, Onalaska

This workshop gives teachers the opportunity to discover the world of Multimedia by taking advantage of several learning processes. Participants will understand needs as addressed in the Wisconsin Model Academic Standards for Technology and Information Literacy by working in a hands-on technology environment. Participants will involve themselves in the multimedia process of gathering multimedia information from a variety of electronic resources and creating a presentation using Hyperstudio Software. Participants will also become familiar with the latest in school multimedia technology by working in the new Multimedia Lab at Onalaska Middle School.

### **Incorporating Computer Technology into the Inclusion Curriculum - Grades K-12 (W Onalaska)**

Presenter: Merrie Beth Fisher, UW-LaCrosse

Are you interested in learning how to use computer tools to meet the needs of both special and typical learners? To effectively use technology in the inclusion classroom requires an understanding of students' abilities, curricular tools and instructional methods, as well as familiarity with software, hardware and network. This hands-on workshop is designed for teachers who wish to successfully integrate computer technology into their instruction for **all** students.

### **Technology in Curriculum Design - Grades K-12 (W Onalaska)**

Presenter: Terry Rydberg, Western Wisconsin Technical College

This workshop will focus on the techniques that graphic designers and marketers use to create visual excitement in everything from course outlines to newsletters. Students will use basic principles of design, typography and layout as they create or revise their own instructional materials.

### **Internet in Education - Beginning - Grades K-12 (W Onalaska & Holmen)**

Presenter: Jim Welander, Holmen

This session for beginning "surfers" will concentrate on Internet lingo, teacher and student usage via the World Wide Web, e-mail and the creation of simple home pages for use in the classroom. "Newbies" who have an interest in the Internet and need the basics will find this workshop designed to fit their needs.

### **Internet in Education - Intermediate - Grades K-12 (W Onalaska)**

Presenter: Eric Thompson, Onalaska

This workshop is intended to build upon and enhance the skills of educators using the Internet. It is designed for those teachers who have already attended a Washburn Internet in Education - Beginner session, or who already possess solid basic skills with computers and the Internet. The vast majority of the week's class time will be "hands-on" in the computer lab.

### **WebQuest - Grades K-12 (W Onalaska)**

Presenters: Judy Aakre, CESA 4 and Nelson Aakre, LaCrosse

WebQuest is an inquiry-oriented activity in which some or all of the information learners interact with comes from resources on the Internet. Students work in small groups to acquire knowledge and use it in their lessons.

### **Take Your Lessons into the 21st Century - Grades K-12 (W Onalaska)**

Presenters: Catherine Beyers and Cathy Maringer, LaCrosse

Begin this fall with lesson plans updated to include technology project alternatives and on-line reference skills, such as BadgerLink, Library of Congress and Smithsonian. Be a part of the learning community this summer that will infuse your present curriculum with Wisconsin's new Model Academic Standards in Technology and Information Literacy. Learn web sites, searching strategies, project ideas and information skills that will motivate your students and broaden your horizons.

### **Distance Learning: Where Do You Want to Teach Today? - Grades K-12 (W Holmen)**

Presenter: Carol Popelka, WWLearn, CESA 4

Using the new state-of-the-art WWLEARN network at Holmen High School and other sites, you will learn the tricks of the trade of distance learning: which buttons to push, how to adjust your curriculum, choosing materials and teaching styles to fit the distance format, how to keep your students interested from afar and how you can benefit professionally from utilizing distance education. You will become familiar with the cameras, microphones and monitors, and will teach your fellow participants a unit of your choice at a distance.

# WASDI Academies 1999

## ***Educational Technology Workshops - All Grade Levels cont.***

### **Integrating Multiple Media - Grades 4-6 (W Holmen)**

Presenters: Judy Aakre, CESA 4 and Linda Hanson, Wisconsin Educational Communications Board

The focus of this workshop will be to integrate multiple resources to engage students in learning. Educators will work in teams to construct student-centered learning experiences. Teachers will have access to the Internet, CDs, instructional television series and other materials from the CESA 4 Learning Resource Center.

### **Creating a Classroom Link to the World Wide Web - Grades K-12 (ST)**

Presenter: Hugh Miller

This session is geared to classroom teachers that are interested in creating a web based tool that may be used to display, modify and update core materials.

### **The Wonderful World of WIDS - Grades K-12 (W Holmen)**

Presenter: Kevin Hennessy, CESA #4 School-to-Work/Goals 2000 Coordinator

This workshop will be an introduction to performance-based instruction using the Wisconsin Instructional Design System. Students will become proficient in applying the principles of performance-based instruction, identifying performance expectations for learners and using the WIDS software. Participants will construct a course outcome summary for a course study.

### **Incorporating Computer Technology into the Inclusion Curriculum - Grades K-12 (W Holmen)**

Presenter: Merrie Beth Fisher, UW-LaCrosse

To effectively use technology in the inclusion classroom requires an understanding of students' abilities, curricular tools and instructional methods, as well as a familiarity with software, hardware, and network. This hands-on workshop is designed for teachers who wish to successfully integrate computer technology into their instruction for all students.



*Mathematics, Science and Technology for Teachers*



# WASDI Academies 1999



## ***Administrator Workshop/Reading & Language Arts***

### **Building the Effective School Culture - Audience Superintendents, Principals, and Curriculum Coordinators (CR)**

Presenters: Jim Dimock, Parkview Elementary Principal &

Dr. Charles Krueger, Chair of People, Process, Cultures, UW-Stout

After participating in the week's keynote session, administrative staff will meet and discuss ideal and pragmatic solutions to developing your staff's science literacy and ability to teach an inquiry-based science curriculum that meets the National Science standards and can easily be adapted to meet Wisconsin State Science Standards, as well as local standards. Much of the first day will be spent with Dr. Larry Lowery, key researcher for the Full Option Science System (FOSS) K-8 Science curriculum. Administrators, faculty and staff will explore the components and leadership practices needed to build outstanding organization cultures. This workshop will present the major components of high performing people-centered cultures. Participants will assess their own school cultures and cultures of other organizations. They will also develop plans to improve their school cultures. Participants will define the systems, leadership practices and conditions that must be aligned to create the best possible learning environment. Participants will explore the mathematics standards, issues around mathematics reform movement and strategies for motivating faculty to improve students achievement in mathematics. In addition, time will be spent exploring the importance of assessment and current models being used to locally evaluate students mastery in the core content areas.

### **Connections: Linking Reading, Language Arts, and Technology - Grades K-5 (CHI)**

Presenters: Nancy Neill, Racine and Associates

Learn how to link reading, language arts and technology. We will target what you need to know and be able to do to connect curriculum and instruction, standards and benchmarks and assessment. Explore ClarisWorks for Kids, Wiggleworks, and Easy Grade Pro. Visit favorite teacher web sites and learn what is new in reading, writing, listening, speaking and observing. Materials and a binder of teacher-tested ideas will be provided.

### **Reading and Writing: What is the Child Learning? - Grade K-5 (CHI)**

Presenter: Anna Oliak, Kenosha

Examine the reading and writing resources available, early reading behaviors, and prompts that work. Use Reading Recovery Strategies, make books and Eikonin Boxes. "Take words apart" and much more!

### **I Didn't Know You Could Do That in Science! - Grades 5-8 (CHI)**

Presenter: Linda Neiman, Kenosha

Learn how to enhance the teaching and learning of science through the use of literature, the language arts - reading, writing, speaking and listening as well as the implementation of rubrics and portfolio assessment in your science classroom. During this workshop's interactive approach you will use writing to increase comprehension of scientific principles, learn the principle of portfolio assessment, implement the use of rubrics, use literature to enhance the teaching and learning of science and create a science unit incorporating the language arts.

### **Literature--The Link or "Love that Literature" - Grades 3-6 (CHI)**

Presenter: Betty Ehret, Racine

Fun and energizing workshop will focus on the integration of literature and writing into the science curriculum. It will enable the teacher to develop thematic units based on science concepts, cooperative learning strategies and multiple intelligences. Emphasis will be placed on linking literature, poetry and writing activities to the following science standards: earth science, space science, life science and chemistry. We will make various books and graphic organizers, develop our own rubrics and use a number of cooperative learning activities.

### **A Reading Intervention Model for Upper Elementary School Students - Grades 3-6 (SR West Allis)**

Presenter: Amy McNichol, West Allis

This workshop will focus on the actual research-based principles of current reading instruction as applied to older students. Participants will be introduced to various instructional models. There will be discussion on how to better utilize staff and material resources at the school site to meet individual students' needs.

# WASDI Academies 1999

## *Reading & Language Arts cont.*

### **Introduction to Guided Reading - Grades K-3 (SR West Allis)**

Presenter: Kathryn Cloonan, National Educational Consultant, Author and Educator

This motivating step-by-step workshop is designed to actively involve teachers of emergent and early readers in this most important component. Teachers' most pressing questions will be addressed about what guided reading is and why we need to include it, how it differs from teaching reading with basals or trade books, where to start and how to get organized, how to tell who's reading and who is not, what to do with those who aren't reading for guided reading, how to identify quality guided reading materials, how to do a guided reading lesson, what everybody else is doing, and how to evaluate and document reading growth.

### **English/Language Arts Curriculum Development and Change: Utilizing Wisconsin's Model Academic Standards - Grades K-12 (W Holmen)**

Presenters: Dawn Gorski and Char Lemke, Fountain City

This workshop will cover the conceptual framework for curriculum development, alignment and assessment concerning the K-12 English/Language Arts standard with special emphasis on writing. Included will be analysis of the standard, alignment/embedding the standard and effective techniques for assessment. Emphasis will be on student writing, infusing demand writing into the curriculum, and encouraging and supporting writing throughout the K-12 curriculum.

### **High Stakes Testing: It's About Reading, Writing and Comprehending - Grades 4-12 (W Holmen)**

Presenter: Ros Krajewski, West Salem Reading Specialist

This workshop is designed so that participants can help students in content area classes learn more effectively. Strategies will be taught that will facilitate both the teaching and learning of content materials so that students can organize, understand, and retain course information. Teachers will be asked to bring a content-area textbook or unit that they are currently using.

### **Building a Foundation Literacy - Grades K-3 (SR West Allis)**

Presenter: Barbara Kramer, Consultant, Oconomowoc

This workshop is designed to help you learn ways to systematically observe and evaluate reading behaviors. Discover strategies to help children become independent problem solvers while reading. Investigate techniques for helping children who are having difficulty with reading.



*Mathematics, Science and Technology for Teachers*



# WASDI Academies 1999



## ***WASDI Lead Teachers Core Programs***

Listed below are the names of the WASDI Lead Teachers and their core program areas in which they were trained during the first four years of this grant project. These teachers are prepared to make presentations in these core areas. These teachers are all currently teaching in Wisconsin and are connected on-line through a FirstClass Software program called WASDI Line. Service and technical support for this on-line communication program are provided by the Wisconsin Educational Communications Board.

### **Algebra, Geometry, Statistics For All - High School**

Mary Lane Blomquist, 414-272-8423, St. Joan Antida High School, Milwaukee • Lauren Jensen, 608-767-2586, Wisconsin Heights High School, Wisconsin Heights • Kali Kocmoud, 715-243-7451, New Richmond High School, New Richmond • Ann Krause, 608-757-7787, Blackhawk Technical College

### **Biotechnology - High School**

Kevin Cunningham, 715-823-7215, Clintonville High School, Clintonville • Bob Eicher, 608-758-6304, Parker High School, Janesville • Bill Heeren, 715-359-6561, D.C. Everest High School, Schofield • Bruce Russell, 715-284-4324, Black River Falls High School, Black River Falls • Marge Watzke, 414-785-3900, Brookfield Central High School, Brookfield

### **BSCS Science Grades K-2**

Connie Biedron, 608-525-4571, Etrick Elementary, Etrick • Linda Luger, 414-763-0190, Burlington Middle School, Burlington • Joan Smith, 414-353-8660, Cosmic Center, Milwaukee • Judy Tate, 920-832-6265, Johnston Elementary, Appleton

### **BSCS Science Grades 3-5**

Mary Jo Fuhry, 414-345-3040, Indian Community School, Milwaukee • Don Lanik, 608-582-2241, Galesville Elementary, Galesville • Traci Roth, 608-849-2200, Waunakee Prairie Elementary, Waunakee • Jay Simonsen, 414-681-4465

### **Children's Engineering - Elementary**

Mary Bolen, 608-789-7690, State Road Elementary, LaCrosse • Bill Hartling, 414-832-5750, Janet Berry Elementary, Appleton • Kathy Lee, 608-829-4130 ext 147, John Muir Elementary, Madison • Peggy Nehring, 715-723-0538, McDonell Central High School, Chippewa Falls • Linda Olson, 715-839-6050, Pedersen Elementary, Altoona • Rosie Padgett, 608-789-7980, Summit Elementary, LaCrosse • Dawn Theelke, 715-394-8780, Blaine Elementary, Superior • Sue Wiperman, 414-279-7938, Star Center Elementary, Lake Geneva • Mary Jo Ziegler, 608-246-4646, Sherman Middle School, Madison

### **Communications Technology - High School**

Dave Arndt, 608-786-1220, West Salem High School, West Salem • Margery Brutscher-Collins, 414-942-2200, Tremper High School, Kenosha • Collin Csuy, 715-261-3140, Wausau West High School, Wausau • Jim Machamer, 414-867-2171, Weyauwega Middle/High School, Weyauwega • Damon Smith, 715-839-1500, Memorial High School, Eau Claire

### **Computers, Calculators & Manipulatives - Elementary**

Janet Alekna, 715-422-6136, Grove Elementary, Wisconsin Rapids • Bobbi Bruce, 715-669-5548, Thorp Elementary/Middle School, Thorp • Sue Cook, 414-567-6632, Meadow View Administrative Offices, Oconomowoc • Kris Dimock, 715-568-1042, Bloomer Elementary, Bloomer • Cathy Fuchs, 608-789-7008, North Woods Elementary, LaCrosse • Karin Hanson, 414-963-9540, St. Robert School, Milwaukee • John Peter, 715-635-2873, Spooner Elementary, Spooner • Vicki Roth, 414-644-5226, Slinger Middle School, Slinger • Linda Somers-Sandersen, 414-281-7100, Elm Dale Elementary, Greenfield

### **Connected Mathematics Project - Middle School**

Kandi Bartelt, 715-545-2724, Phelps High School • Jeannie Coppernoll, 608-739-3101, Riverdale Elementary, Muscoda • Polly Goepfert, 608-877-550, River Bluff Middle School • Melissa Henneman, 715-423-6110, East Junior High School • Kevin Haddon, 414-438-3630 ext 8471, Cosmic Center, Milwaukee • Meg Kaduce, 715-726-2400, Chippewa Falls Middle School, Chippewa Falls • Dan Kvislen, 715-285-5315, Arkansas Middle School, Arkansas • Bertha Martinez, 414-763-0190, Burlington Middle School • Michelle Parks, 715-839-6181, Northstar Middle School, Eau Claire • Jody Pankratz, 715-258-4140, Waupaca Middle School





# WASDI Academies 1999

## WASDI Lead Teachers Core Programs

Listed below are the names of the WASDI Lead Teachers and their core program areas in which they were trained during the first four years of this grant project. These teachers are prepared to make presentations in these core areas. These teachers are all currently teaching in Wisconsin.

### Connected Mathematics Project - Middle School cont.

Tony Pickar, 920-683-4763, Wilson Junior High School • Barbara Riedel, 715-838-2600, South Middle School • Robin Starck, 920-459-3666, Horace Mann Middle School, Sheboygan • Julie Theurer, 608-486-2331, Bangor Middle/High School, Bangor • Todd Wilson, 608-854-4144, Southwestern Wisconsin Elementary

### Core-Plus Mathematics - High School

Jim Adams, 715-924-3137, Chetek High School, Chetek • Laurel Brandt, 608-269-2107, Sparta High School • Barb Bredel, 715-478-3583, Crandon High School, Crandon • Karen Brenneman, 414-763-0200, Burlington High School • James Fischer, 920, 885-7313, Beaver Dam High School • Paul Hansen, 414-868-3284, Gibraltar High School, Fish Creek • Jeremy Kessenich, 608-437-5516, x 2115, Mount Horeb High School • Scott Kirst, 414-846-4471, Oconto Falls High School, Oconto Falls • Kali Kocmoud, 715-243-7451, New Richmond High School, New Richmond • Richard Melcher, 715-779-3201, Bayfield High School • Marcia Olson, 608-763-2161, Potosi High School, Potosi • Mary Rosin, 715-423-1520, Lincoln High School, Wisconsin Rapids • David Sommers, 414-562-1797, Cornerstone Achievement Academy • Tony Weisse, 608-789-7900, LaCrosse Central High School

### Elementary Technology Education

Bob Anibas, 414-867-2148, Weyauwega-Fremont Middle School, Weyauwega • Stefanie Boggs, 414-376-6800, Parkview Elementary • Jo Boyd, 414-474-4460, Ashippun School, Oconomowoc • Duong Duong, 414-785-3960, Wisconsin Hills Elementary, Elmbrook • Marie Ellis, 414-653-7622, Ed. Support/Instructional Media Center • Heidi Erstad, 414-895-7540, Lakeview Elementary, Muskego-Norway • Bill Giese, 715-664-8546, Downsville Elementary • Katarina Jungbluth, 608-326-4744, Wauzeka Elementary • Carol Kettner, 715-537-5621, Woodland Elementary, Barron • Selisa Klomp-Erickson, 608-534-6394, Trempealeau Elementary • Laurie Lardinois, 414-424-0174, Smith Elementary, Oshkosh • Deb Lawler, 715-720-3750, Parkview Elementary • Jeff Lucas, 920-751-6975 ext 139, Spring Road Elementary, Neenah • Dawn Nordine, 715-545-2724, Phelps Elementary, Phelps • Chuck Paulson, 608-789-7020, Southern Bluff Elementary • Pat Rahn, 715-726-2412, Stillson Elementary, Chippewa Falls  
Jeff Rohr, 920-885-7373 ext 134, Wilson Elementary, Beaver Dam • Kathy Romsos, 414-863-2121, Denmark Elementary, Denmark • LeeAnn Schmidmayr, 715-339-3864, Phillips Elementary • Judy Shookman, 715-384-8181, Madison Elementary, Marshfield

### FOSS Grades K-2

Rosanne Cowan, 414-335-5490, McLane Elementary, West Bend • Mary Beth Hutchinson, 715-597-3196, Osseo Elementary • Joan Jennings, 414-438-3620, Cosmic Center, Milwaukee • Bonnie Johnson, 414-335-5490, McLane Elementary, West Bend • Diane Johnson, 715-265-4231, Glenwood City Elementary, Glenwood City • Karen Kinyon, 414-683-4751, Franklin Elementary, Manitowoc • Lucy McCarthy, 715-359-5206, St. Mark Elementary • Ruth McHorney, 715-835-3500, Immaculate Conception, Eau Claire • Barbara Meyers, 715-339-3864, Phillips Elementary • Kaye Mitchell, 414-438-3620, Cosmic Center, Milwaukee • Candy Nerge, 608-231-4550, Crestwood City Elementary, Madison • Melody Orban, 414-653-6390, Jefferson Elementary • Diane Price, 414-438-3620, Cosmic Center, Milwaukee

### FOSS Grades 3-5

Joel Anderson, 715-261-2800, Stettin Elementary, Wausau • Randy Colton, 715-359-3186, Rothschild Elementary, D.C. Everest • Jan Drehmel, 715-720-3750, Parkview Elementary, Chippewa Falls • Lynn Elbert, 715-720-3750, Parkview Elementary, Chippewa Falls • Paul Hanson, 414-277-4615, Professional Development Center, Milwaukee • Susan Inkmann, 414-376-6800, Parkview Elementary • Laura Jackson, 414-424-0460, Webster Stanley Elementary, Oshkosh • Linda Juech, 414-335-5490, McLane Elementary, West Bend • Karen Lea, 715-723-7071, Retired, Hillcrest Elementary, Chippewa Falls • Jane Luehring, 715-682-7083, Lake Superior Intermediate • Jaime Malwitz, 414-477-3291, Eden Elementary, Campbellsport • Diane Olenchek, 414-367-2000, Swallow School • Bruce Oxley, 715-356-3282, Arbor Vitae-Woodruff Grade School, Arbor Vitae-Woodruff • Don Primmer, 715-823-7277, Longfellow Elementary, Clintonville • Rhulene Swanigan, 414-438-3630, Cosmic Center, Milwaukee • Joy Turpin, 715-479-6471, Northland Pines Elementary • John Vitale, 414-246-4220, Maple Avenue School



Mathematics, Science and Technology for Teachers



# WASDI Academies 1999



Mathematics, Science and Technology for Teachers



## ***WASDI Lead Teachers Core Programs***

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### **Graphing Calculators - High School**

Judy Jones, 608-246-6258, Madison Area Technical College, Madison • Stephanie Luther, 608-837-2544, Sun Prairie Middle School • Lander Valley High School, Lander, WY • James Marty, 414-521-8755, Waukesha North High School, Waukesha • Mike Nerbovig, 715-726-2406, Chippewa Falls High School, Chippewa Falls

### **High School Algebra for All Students**

Steve Reinhart, 715-726-2400, Chippewa Falls Middle School, Chippewa Falls • Lorna Vazquez, 715-238-7175, Granton High School, Granton • Mike Weidner, 414-351-1700, Nicolet High School, Nicolet

### **High School Technology Education**

Fred Beyer, 715-526-2175, Shawano Community High School • Ron Fisher, 608-526-9446, Holmen High School • Dave Olenchek, 414-367-3611, Arrowhead High School • Dan Rosa, 414-367-3611, Arrowhead Union High School • Jay Ruetten, 608-789-7900, Central High School

### **Integrating Technology in High School Science**

Linda Cram, 414-671-4000, Pulaski High School, Milwaukee • LaVerne Harrison, 715-223-2386, Abbotsford High School, Abbotsford • Mark Klawiter, 715-532-5531, Ladysmith High School, Ladysmith • Marian Schraufnagel, 414-363-6200, Mukwonago High School, Mukwonago

### **Integrating Physical & Life Sciences - High School**

Jeff Anderson, 414-964-5900, Riverside University High School, Milwaukee • Jill Hunger, 608-643-5928, Sauk Prairie High School, Sauk Prairie • Brad Staats, 4920-982-2567, New London High School, New London • Steve Stevenoski, 715-423-1520, Lincoln High School, Wisconsin Rapids

### **Introduction to Engineering - Middle School**

Christopher Amundson, 608-269-2185, Sparta Middle/High School, Sparta • Ken Bremer, 608-267-4246, Georgia O'Keefe Middle School, Madison • Rebecca Deist, 414-495-7102, Palmyra-Eagle Middle School, Palmyra • Russell Gilbert, 608-647-4311, North Crawford High School, North Crawford • Dale Hanson, 920-832-6201, Appleton East High School, Appleton • Ken Hopperdietzel, 715-261-3500, Wausau East High School, Wausau • Lee Krueger, 414-353-3220, Burroughs Middle School, Milwaukee • Mark Poggensee, 414-723-6800, Elkhorn Middle School, Elkhorn • Dave Rasmussen, 715-345-5569, P.J. Jacobs Junior High School, Stevens Point • Phil Shores, 715-294-4180 ext 328, Osceola Middle School, Osceola • Jerry Sims, 608-647-6381, Richland Middle School, Richland Center • Sandra Swietlik, 414-933-9900, Grand Avenue Middle School, Milwaukee • Peter Watts, 414-262-1480, Riverside Middle School, Watertown

### **Middle School Math Models**

Carole Beyer, 414-644-5226, Slinger Middle School, Slinger • Stephanie Ganshert, 608-221-7676, Winnequah Middle School, Monona • Faye Hilgart, 715-662-2311, Blair-Taylor Middle School, Blair • Pat Madsen, 715-286-2291, Augusta Elementary, Augusta • Jane Patterson, 414-481-6720, Fritsche Middle School, Milwaukee • Lynn Scala, 715-285-5315, Arkansas Middle School, Durand • Richard Sterry, 715-232-1673, Menomonie Middle School, Menomonie • Ernie Thieding, 608-838-8980, Indian Mound Middle School, McFarland • Pat Tyunaitis, 414-795-4327, New Holstein Elementary, New Holstein

### **Middle School Technology Education**

Dan Dunn, 608-723-6425, Lancaster Middle School • John Griffith, 715-635-2172, Spooner High School • Jerry Johnson, 920-424-0065, Carl Traeger Middle School • Dave Masterson, 715-693-3660 x 3428 • Tom Mlsna, 715-877-2511, Fall Creek Middle School

# WASDI Academies 1999

## **WASDI Lead Teachers Core Programs**

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### **Operation Physics - Middle School**

Dave Clarke, 414-849-2358, Chilton Middle School, Chilton • Laura Hellman, 414-466-9920, Morse Middle School, Milwaukee • John Nevins, 715-478-3339, Crandon High School, Crandon  
Eldora Ondrus, 715-962-3676, Colfax Elementary, Colfax • Joe Riederer, 715-422-6200, West Junior High School, Wisconsin Rapids • Karen Schilling, 608-742-2165, Platteville Middle School, Platteville  
Richard Seng, 414-248-6215, Denison Middle School, Lake Geneva • Carol Wagner, 414-567-1674, Greenland School, Oconomowoc • Deb Wearne-Neurohr, 608-742-2165, Julia Rusch Junior High School, Portage  
Don Vincent, 608-267-7001, Madison West High School, Madison

### **Principles of Engineering- High School**

Ed Pedretti, 608-625-2400, LaFarge High School, LaFarge • Greg Quam, 608-342-4420, Platteville High School, Platteville • John Reiels, 414-351-8164, Nicolet High School, Glendale • William Weber, 414-374-5450, Rufus King High School, Milwaukee

### **Principles of Technology - High School**

Pete Donndelinger, 608-784-0287, Aquinas High School, LaCrosse • Herb Haubrich, 608-437-5516, Mount Horeb High School, Mount Horeb • Jeff Johnson, 414-351-8253, Nicolet High School, Nicolet  
Deb Van Steenderen, 608-835-8070 ext 4871, Oregon Middle School, Oregon

### **Problem Solving - Elementary**

Jill Baston, 414-250-1431, Family Leave • Suzanne Euler, 608-272-3111, Cataract Elementary, Sparta  
Shelly Long, 608-789-7020, Southern Bluffs Elementary, LaCrosse • Jenny Murphy, 715-845-4607, St. Anne's School, Wausau • Maggie Paoletti, Daves Creek Elementary, Cummings, GA • Sherry Sackett, 715-284-7155, Third Street Elementary, Black River Falls • Paul Skarda, 715-752-4000, Bear Creek Elementary, Clintonville • Tracy Taylor-Johnson, 608-789-7982, Summit Elementary, LaCrosse • Johnna Noll, 414-481-3017, Willow Glen Elementary, St. Francis • Liz Nutter, 608-778-6566, Hogan Elementary, LaCrosse  
Sharon Zagorski, 414-438-3620, Milwaukee Teacher Education Center, 414-672-6650 ext 16

### **Science & Sustainability-Standards Based High School**

Allan Hess, 920-739-4441, Fox Valley Lutheran High School • Pam Hosseini, 414-679-2300, Muskego High School • Polly Knoll, 715-394-8720, Superior High School • Dick Lind, 715-693-2550, Mosinee High School • Jim Schmitt, 715-839-6227, North High School • Ron Thomas, 920-623-5956, Columbus High School

### **SEPUP - Middle School**

Bob Budgins, 414-351-7160, Glen Hills Middle School, Glendale • Ritchard Dunn, 715-682-7087, Ashland Middle School • Dave Eggebrecht, 414-653-6300, Educational Support Center • Annya Fahey, 608-884-9402, Edgerton Middle School • Nadine Kuziej, 414-481-3017, Willow Glenn Elementary, St. Francis • Kris Schilling, 715-234-8156, Rice Lake Middle School • Jill Spiegelhoff, 715-823-7245, Clintonville Middle School, Clintonville  
Paul Verdon, 715-232-1673, Menomonie Middle School • Tanya Wagner, 414-466-9920, Morse Middle School • Lori Walker, 414-467-7880, Sheboygan Falls Middle School, Sheboygan Falls

### **Technology in High School Mathematics**

Jim Adams, 715-723-0341, Chetek High School, Chetek • John Katz, 414-253-3400, Germantown High School, Germantown • June Kieckhaefer, 414-542-7101, Catholic Memorial High School, Waukesha  
Andy Kuemmel, 608-884-9402, Edgerton High School, Edgerton • Jack Pfitsch, 608-875-5311, Wauzeka High School, Wauzeka



*Mathematics, Science and Technology for Teachers*



# WASDI Academies 1999



Mathematics, Science and Technology for Teachers



## ***WASDI Lead Teachers Core Programs***

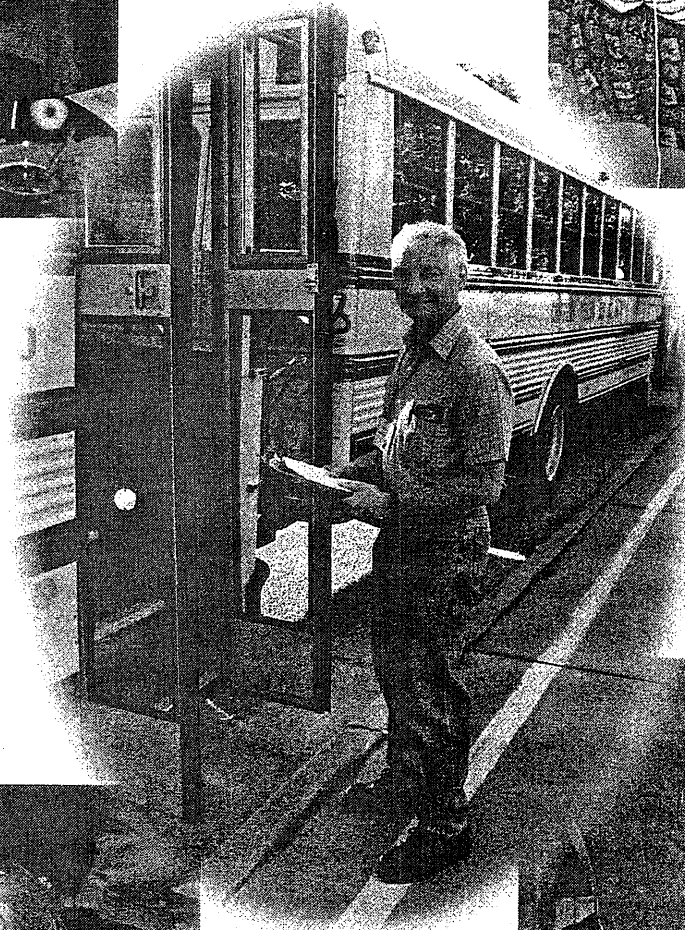
Listed below are the names of the WASDI Lead Teachers and their core program areas in which they were trained during the first four years of this grant project. These teachers are prepared to make presentations in these core areas. These teachers are all currently teaching in Wisconsin.

### **TERC - Elementary**

Barbara Borgwardt, 608-582-2241, Galesville Elementary • Sandra Brown, 608-221-6620, Frank Allis Elementary, Madison • Doug Dalman, 608-363-5351, Beloit Memorial High School, Beloit • Diana Duffey, 414-481-3017, Willow Glen Elementary • David Erickson, 608-534-6394, Trempealeau Elementary • Judy Fadness, 715-839-2822, Locust Lane Elementary • Melissa Kirst, 920-846-4476, Oconto Falls Elementary • Pam Legler, 414-277-4615, Professional Development Center • Maggie Lewis, 414-895-7540, Lakeview Elementary, Wind Lake • Judy Reinhart, 715-839-2824, Longfellow Elementary, Eau Claire • Andrea Rockney, 715-662-3211 Blair-Taylor Elementary, Taylor • Vicki Slafter, 414-653-6307, Durkee Elementary • Lori Williams, 414-683-4752, Jackson Elementary, Manitowoc • Deb Wood, 715-422-6136, Grove Elementary, Wisconsin Rapids • Kerri Wood, 715-232-3987, River Heights Elementary, Menomonie

### **UNITES - Elementary**

Cheryl Dummer, 608-789-7020, Southern Bluffs Elementary, LaCrosse • Bev O'Hara, 414-282-4380, J.F. Cooper Elementary, Milwaukee • Jeanne Paulus, 414-778-6566, Roosevelt Elementary, Wauwatosa • Mary Richards, 715-258-4141, Waupaca Learning Center, Waupaca • Linda Salopek, 608-827-1800, Sunset Ridge Elementary, Middleton • Carol Stein, 414-353-5535, Barton Elementary, Milwaukee • Jane Wisniewski, 414-645-4370, Lincoln Avenue Elementary, Milwaukee





# WASDI

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Partners which provide support and direction for this grant project:

**Chippewa Falls Area Unified School District**

**University of Wisconsin-Eau Claire**

**Silicon Graphics, Inc.**

**Cooperative Educational Services Agencies**

**Wisconsin Department of Public Instruction**

**Wisconsin Educational Communications Board**

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**For more information on this project contact:**

Dr. Julie C. Stafford, Project Director

140 West Elm Street

Chippewa Falls, WI 54729

715-723-1181

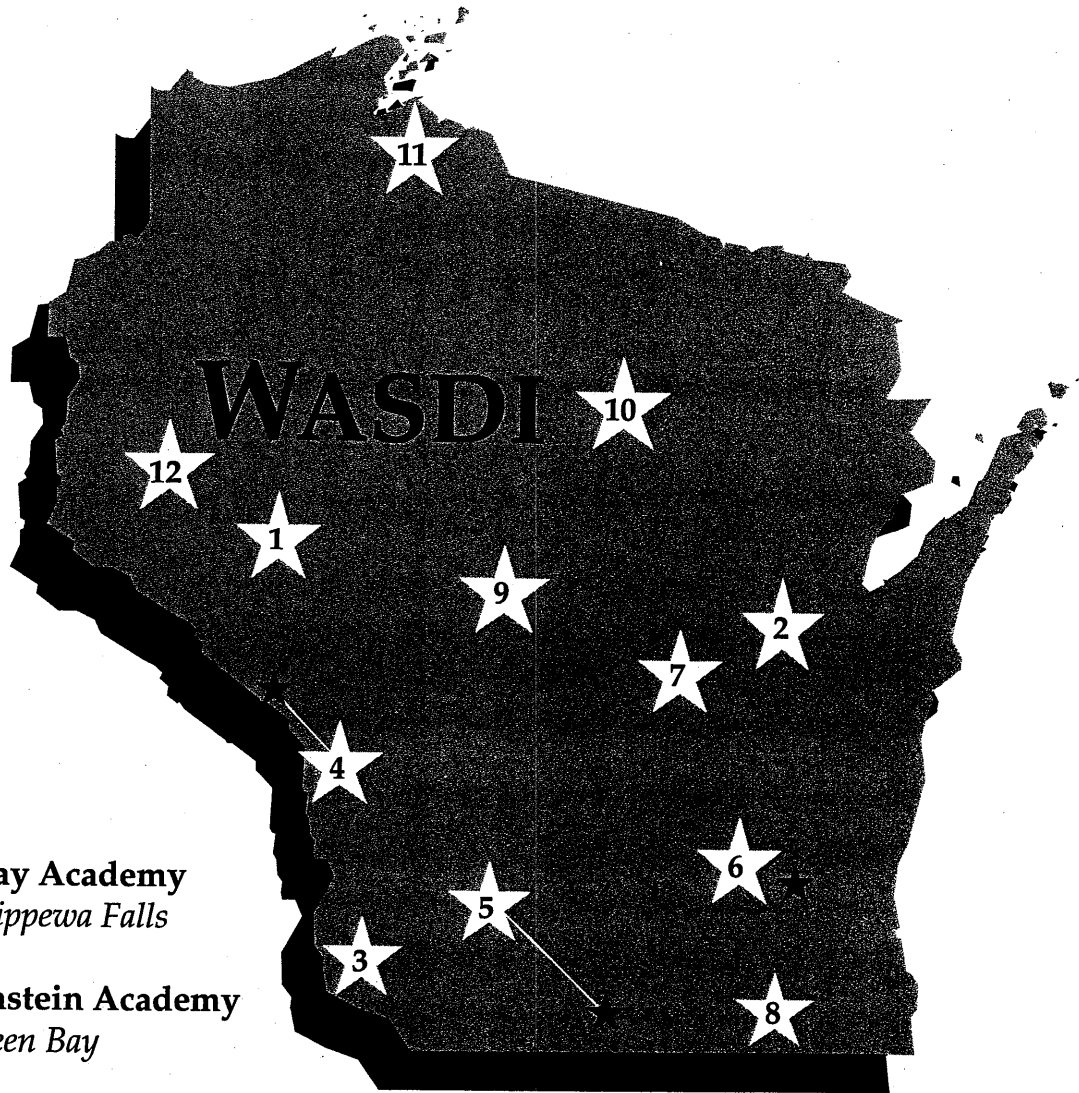
email: [julie\\_stafford@wetrn.pbs.org](mailto:julie_stafford@wetrn.pbs.org)

WASDI Web site:

[www.wisc.edu/wisacad/programs/wasdi-two/wasdi.html](http://www.wisc.edu/wisacad/programs/wasdi-two/wasdi.html)



# Wisconsin Academy Staff Development Initiative Growth Over Time Evaluation Summary



- 1. Cray Academy**  
*Chippewa Falls*
- 2. Einstein Academy**  
*Green Bay*
- 3. Southwest Academy**  
*Fennimore*
- 4. Washburn Academy**  
*Onalaska/Holmen*
- 5. John Muir Academy**  
*Williams Bay/Verona*
- 6. Sally Ride Academy**  
*Waukesha/West Allis*
- 7. Christa McAuliffe Academy**  
*Appleton*
- 8. Chiwaukee Academy**  
*Kenosha*
- 9. Wisconsin River Valley Academy**  
*Stevens Point*
- 10. Northwoods Academy**  
*Rhineland*
- 11. Gitche Gume Academy**  
*Ashland*
- 12. Star Academy**  
*Amery*

## **Wisconsin Academy Staff Development Initiative (WASDI)**

The Wisconsin Academy Staff Development Initiative (WASDI) is a kindergarten through twelfth grade (K-12) teacher enhancement professional development program designed to improve mathematics, science and technology education through specific leadership training and statewide Academies. It is a National Science Foundation funded program for \$6 million over five years from 1994 to 1999. WASDI components include a Lead Teacher Institute and the development of twelve academies throughout Wisconsin.

In the first four years of the Wisconsin Academy Staff Development Initiative, 236 Lead Teachers from approximately one fourth of Wisconsin's 426 districts were prepared to deliver systemic reform based staff development workshops in mathematics, science and technology education. Lead Teachers received training in at least twenty-four different curricular reform programs sponsored by the National Science Foundation or other nationally recognized groups. According to independent evaluation, 92 percent of the WASDI Lead Teachers reported they provided leadership for curricular change in their schools. Eighty-nine percent reported providing leadership in their districts as a result of their WASDI training. Lead Teachers are promoting the curriculum reform needed to raise student test scores.

According to outside evaluation, the results of this program demonstrate that WASDI Lead Teachers conducted staff development workshops for teachers and administrators and school board members in their own and other districts, became involved in national and state standards development, received numerous professional awards, obtained funds for instructional technologies and other grants, assumed leadership positions in other NSF funded grant programs, and helped industry representatives better articulate the skills needed by business and industry employers.

In 1998, thirteen regional academies delivered 160 kindergarten through twelfth grade (K-12) mathematics, science and technology education workshops throughout the state of Wisconsin to 2850 teacher-participants who attended these sessions. Academy teacher attendees reported teaching more math and science than before; they changed the way they taught and the way their students were engaged. Teachers used more hands-on instructional strategies, relied less on textbooks, knew more about performance and alternative assessment strategies, and used real-world applications. Their students did more problem solving and critical thinking activities and worked more in collaborative teams. They also reported they use more technology to enhance the teaching and learning of science and mathematics. One hundred percent of them reported that they felt they were more effective teachers and that they shared new teaching ideas with other teachers in their schools and districts.

Partnership development at each Academy site is a significant component of the WASDI program which exemplifies the connections between education and the workplace. In the first four years, all teacher-participants went on two or three of the nearly 500 business and industry tours throughout the state. Approximately 600 business representatives participated in structured discussions with teachers in their workshops about skills needed by the workforce now and in the future.

A more detailed report of this project is summarized on the following pages.

## **Wisconsin Staff Development Initiative Evaluation Growth Over Time: Results of the WASDI Program at the end of the 4<sup>th</sup> year**

Recognition of the impact that the WASDI Project is having has grown steadily over the past four years. This has occurred for several reasons, such as Wisconsin adoption of Model Academic Standards and new high stakes student tests, and as other states have seen their State Systemic Initiatives (SSI) grants from the National Science Foundation (NSF) end prior to the accomplishment of the expected statewide K-12 curriculum reforms. WASDI is currently recognized as a successful statewide, regional and local approach to reform of K-12 mathematics, science and technology education. This recognition is evidenced in diverse actions taken by many groups:

- Increasingly, in Wisconsin, diverse groups are stepping forward to develop a K-12 teacher professional development, WASDI, Academies for their region.
- Established Academies are finding increasing support in the community and experiencing increasing enrollments.
- More districts are seeking out WASDI trained Lead Teachers to lead K-12 curriculum reform and increasingly these requests are due to the preparation of the WASDI Lead Teachers in implementation of the NSF “reform curriculum” in K-12 mathematics and science.
- WASDI Lead Teachers continue to extend the reach of their leadership activities.
- Increasing use of the WASDI asynchronous communication system —WASDIline.
- Districts are recognizing the outstanding quality of the workshops provided at the summer WASDI Academies.
- WASDI Lead Teachers and teachers participating at Summer Academies are increasingly recognizing ways to integrate technology into mathematics and science, as well as ways to integrate mathematics, science and technology.
- Technology Education is increasingly viewed as relevant to all areas of the curriculum, as a valid curriculum area in its own right, particularly in elementary curriculum, and as a rich source of activities for inquiry and problem-solving activities for the mathematics and science curriculum.
- State professional organizations are experiencing new leadership from WASDI Lead Teachers who are officers, board members and presenters.
- Other states have observed the project with the hope of replicating part or all of the WASDI approach to statewide K-12 curriculum reforms.
- The Wisconsin Department of Public Instruction is seeking state funds in order to extend the program to include other curriculum areas and to continue the WASDI program beyond 2000, the fifth year funding deadline for the current NSF grant.

## **Regional WASDI K-12 Teacher Professional Development Academies/Centers**

From all corners of the state, Wisconsin educators and community members who are responsible for reform of K-12 mathematics, science and technology education are seeking to implement a WASDI Summer Academy to accomplish K-12 reform. When the project began in November 1994, there were 6 Academies that offered 96 professional development workshops to 1653 teachers. The project proposed to develop 10 professional development Academies or centers over a period of 5 years. At the end of 4 years, there were 13 Academies that offered 160 workshops to 2850 K-12 teachers.

A unique part of WASDI that is beginning to gain more importance in regional curriculum reform efforts is that WASDI connects mathematics and science curriculum reform with technology education curriculum reform. Academy offerings include technology education workshops, as well as instructional technology training. Increasingly, these technology education workshops have an explicit connection to curriculum reform in mathematics and science.

Another important reason for making this technology education connection is to promote the development of increased participation and commitment to school and business partnerships in order to enhance the preparation of students for the world of work. In 1998, teachers participating in the summer workshops spent a half day touring 500 businesses, discussing school-business partnership issues with 600 business and industries representatives, and 76 Wisconsin corporations made contributions to various Academies.

## **Prepared Teacher Leaders**

One reason that there are so many educational groups developing WASDI Summer Academies statewide is availability of the 236 teachers who have participated in the 18-month WASDI Lead Teacher Institute. In 1998, fifty-four percent of the WASDI Academy workshops were presented by WASDI Lead Teachers. Three WASDI Academies are currently directed by Lead Teachers. Increasing numbers of Lead Teachers serve on the Academy Board of Directors.

The WASDI Lead Teachers are increasingly recognized for their preparation in leadership skills, such as how teachers work with administrators or teachers who are hostile towards reform. Lead Teachers have proven their competency with curriculum reform knowledge, skills and attitudes. Lead Teachers have demonstrated in depth knowledge of the national and state mathematics and science standards and the emerging technology education and instructional technology standards. They also have experience with implementation of one or more of the 26 national reform curricula sponsored by the National Science Foundation which have been part of the Lead Teacher Institute training program.

Monthly reports from Lead Teachers to the evaluator document the increasingly diverse leadership activities. For example, Lead Teachers are (a) leading district curriculum reform, (b) teaching district, regional and state courses and workshops related to curriculum reform, including the integration of standards, new assessment and instructional technology; (c) working at the district level to expand other teachers' vision of how K-12 education can benefit students and the community; (d) providing leadership in district adoptions of one or more of the 26 national reform curricula, and (e) preparing and receiving grants at regional, state, and national levels.

The WASDILine, asynchronous communication system that WASDI senior staff, Academy Directors, and Lead Teachers used for 10,000 hours in 1997-98, has been used for over 22,00 hours over four years. Lead Teachers claim that this online computer network provides the kind of daily support they need to shift into their new and diverse roles as teacher-leaders in curriculum reform. WASDI work, related to Academies, Lead Teachers, project staff, interstate and out of state outreach, is increasingly accomplished asynchronously, as is other project management work. That is, there are fewer face-to-face meetings and thereby, saved travel and meeting time. There is less surface mail and therefore, quicker turn around time and more timely information sharing.

A subgroup of WASDI Lead Teachers and the Senior Staff have improved their knowledge and skills in how to use WASDILine for continuing the professional development began during the face-to-face meetings of the Lead Teacher Institute. Lead Teachers and staff have committed extra efforts to developing the culture required in an online environment that is a continued learning opportunity. They do so because their personal experiences, as well as professional development research findings, tell them that learning and changes take place daily and incrementally, a phenomena that can occur more readily through the support provided via online learning communities. The WASDILine results experienced by Lead Teachers include these slow, continual personal changes in beliefs about teaching and learning, paradigm shifts, and new reform curriculum knowledge and skills. There is commitment to continue developing these online facilitation skills so that new Lead Teachers, and in the future, even teacher Academy participants, can experience the professional development results that online networking, that included facilitated learning community, provides.

### **Benefits to Teachers, Students, and Other Teachers**

Teachers, students, and other teachers benefit from a teacher's participation in a WASDI Summer Academy workshop and these benefits increase the more years a teacher participates. Teachers who have participated for 4 or more years, taking workshops across science, mathematics and technology education begin to understand the constructivist (or teaching for understanding and daily problem-solving/inquiry) approach to teaching, in general, and the many ways they must reform teaching and learning for students to become confident with mathematics, science and technology education at their grade level.

At Summer Academies, teachers participate in particular kinds of workshops best described as places where teachers first experience the same lessons students will later experience. This permits teachers to gain comfort with what often is difficult science or mathematics content, new ways that “students” are required to communicate with one another about problem solution strategies or inquiry approaches, plus experience new assessment procedures. After participating in these exemplary or model lesson experiences, teachers are then introduced to the “theory” behind the lesson including the constructivist approach to teaching and learning, brain-based research and theory, equity theory, and the national and state standards. Teachers participate in half-day tours of at least two businesses and provide a career-oriented rationale for the constructivist approach to teaching that empowers students with the self-confidence needs to see oneself as successful with mathematics, science and technology education activities that may be new and unexpected – the, I can do it attitude that is needed in workers today.

Perhaps, because WASDI Lead Teachers represent three curriculum areas: mathematics, science, and technology education; represent the K-12 curriculum and grade span, or perhaps because their Institute training program includes developing new knowledge and skills related to both Technology Education and educational technology—for multiple reasons, a strong WASDI outcome has been Academy workshop offerings that promote integration. This integration comes in three forms: (1) integration of educational technology into mathematics and science; (2) integration of Technology Education activities into the mathematics and science program; and (3) integration of Technology Education into the K-12 curriculum. Elementary Technology Education is viewed as a legitimate new part of the K-5 curriculum for student benefits related to design engineering processes, inquiry and problem-solving—the same processes promoted by the new mathematics and science standards. Other legitimate student benefits are related to preparation for the workplace where problems and inquiry do not come as strictly mathematics or science problems, but rather require the problem solver to flow in and out of mathematics, science, and other areas of knowledge and related processes.

### **Project Extensions and View into 2000-2001**

The WASDI Project Senior staff has solidified as a productive team who can readily explain to others how to go about doing an extension of the project in another state, or in other content areas. The DPI is particularly interested in extending the model to social studies and language arts and having this team continue their leadership in an extended program. The project leadership team is interested in continuing the project into next decade.



**Margaret J. Wilsman, Ph.D., WASDI Evaluator**

Wisconsin Educational Communications Board  
3319 W. Beltline Highway  
Madison, WI 53713  
(608) 264-9691



**Education:**

PhD	1978	University of Minnesota
MS	1971	Purdue University
BS	1964	Purdue University

**Professional Experience:** 1983-Present

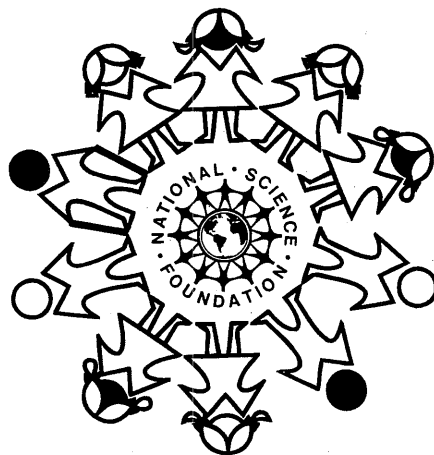
Director of Education Research and Evaluation and Wisconsin Educational Communications Board (WECB) Online. Marge is responsible for evaluation, research and development activities related to the use of telecommunications for professional development, school reform and classroom instruction. Her formative and summative evaluation projects have spanned the K-12 grade levels and a breadth of curriculum content, from primary reading to high school science.

In addition to the evaluation of the NSF funded WASDI project, Marge has conducted statewide evaluation projects related to curriculum reform and teacher professional development. These projects were for the Wisconsin Department of Public Instruction as well as for other ECB projects funded by the National Science Foundation, the U.S. Department of Education, the Corporation for Public Broadcasting, the U.S. Department of Commerce and the Public Broadcasting Service.

# WASDI

The Wisconsin Academy Staff Development Initiative (WASDI) is a program of the Wisconsin Academy of Sciences, Arts and Letters with principal funding from the National Science Foundation.

The work described in this document was supported by National Science Foundation Grant ESI-9453923.



Partners which provide support and direction for this grant project:

**Chippewa Falls Area Unified School District**

**University of Wisconsin-Eau Claire**

**Silicon Graphics, Inc.**

**Cooperative Educational Services Agencies**

**Wisconsin Department of Public Instruction**

**Wisconsin Educational Communications Board**

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**For more information on this project contact:**

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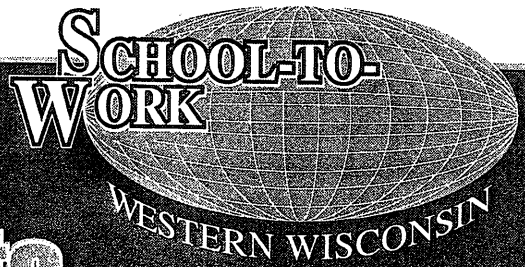
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email: [julie\\_stafford@wetrn.pbs.org](mailto:julie_stafford@wetrn.pbs.org)

WASDI Web site:

[www.wisc.edu/wisacad/programs/wasdi-two/wasdi.html](http://www.wisc.edu/wisacad/programs/wasdi-two/wasdi.html)



# Belief Statements

- 1** Our educational system should provide a better system of transition to postsecondary education and employment for all students.
- 2** In order for School-To-Work to be successful, business/industry/labor must participate in the educational process.
- 3** Competencies critical for the current and future workforce include personal qualities such as honesty and responsibility, thinking skills such as decision-making and problem-solving, and basic skills such as writing and reading.
- 4** There should be better linkages among all levels of education.
- 5** Effective School-To-Work programs combine school-based and work-based learning.
- 6** A high performance economy, characterized by high-skill, high-wage employment is beneficial to everyone.
- 7** An effective, developmental PK-12 career education program is integral to School-To-Work.
- 8** Students, parents, as well as community, business, industry, labor, government, and educational leaders must assume personal responsibility for successful School-To-Work transition.
- 9** School-To-Work activities should be equally accessible to all students and all school districts.
- 10** Students benefit from learning in the context of real life applications.
- 11** All parents, students, and educators can benefit from exposure to the workplace.
- 12** The integration of academic and vocational curricula is essential to School-To-Work.
- 13** Because parents and teachers exert a primary influence on students' beliefs and behaviors, they are vital to the planning and implementation of School-To-Work.

# Goals

- 1** To ensure that all students have the opportunity to acquire the knowledge, skills, and attitudes they need to succeed in a high-skills economy and to participate fully as productive members of their communities.
- 2** To actively recruit participation and involvement of business, industry, and labor in School-To-Work initiatives.
- 3** To facilitate collaborative partnerships among parents, secondary schools, post secondary institutions, community organizations/agencies, and business/industry/labor that will assist students as they make the transition from school to work.
- 4** To plan and implement marketing strategies that will encourage citizen participation in School-To-Work and will enhance public understanding, clarify misconceptions, and improve perceptions of School-To-Work.
- 5** To provide students and parents with a career selection process including awareness, exploration, and preparation that leads to future employment and continued education.
- 6** To support in the following ways the efforts of local school districts in their development of equitable, cost-effective School-To-Work programs:
  - act as a clearinghouse for resources and effective practices
  - network with state and local agencies
  - coordinate staff development
  - develop policies and procedures
  - coordinate federal, state, and community resources
  - promote business, industry, and labor involvement
  - develop a regional framework
- 7** To foster educational reform:
  - improve curriculum, instruction, and assessment through input of all partners
  - accommodate a variety of learning styles
  - encourage participation in a variety of work-related activities
- 8** To coordinate School-To-Work activities with other programs for special populations.

To prepare all youth in western Wisconsin for success in life and work in a competitive, rapidly changing global economy.

# Mission

Western Wisconsin  
School-To-Work  
Consortium

School-To-Work Office  
Western Wisconsin  
Technical College  
Academic Resource Center  
Room 232  
304 North Sixth Street  
La Crosse, WI 54602-0908  
(608) 785-9089  
Fax (608) 785-9212

# Committee Membership, Communication Structure

## Work-Based Learning Subcommittee

### Purpose

To develop, support, market, and evaluate Work-Based Learning activities which promote employability skills, such as those identified in the SCANS (Secretary's Commission on Achieving Necessary Skills) Report.

### Goals

- 1 Facilitate the development of a range of work-based learning options by communities and school districts throughout the Consortium
- 2 Support high quality work-based programs through a variety of mechanisms, such as developing appropriate policies and procedures, providing training, and creating a Work-Based Learning Grant application process.
- 3 Market Work-Based Learning opportunities to students, parents, schools, and businesses using appropriate mediums, presentations, and staff development.
- 4 Assist schools in the recruitment of business partners who will provide Work-Based Learning experiences.
- 5 Develop reporting methods to summarize Work-Based Learning experiences in the Consortium.

## School-Based Learning Subcommittee

### Purpose

To develop School-Based Learning activities consistent with the School-To-Work Opportunities Act which better prepare all youth in western Wisconsin for success in life and work in a competitive, rapidly changing global economy.

### Goals

- 1 Provide comprehensive staff development opportunities for educators at all levels.
- 2 Facilitate the articulation process at the secondary and post secondary levels.
- 3 Foster the development of applied and integrated curricula that addresses personal qualities, higher order thinking skills, and basic skills.
- 4 Establish a system of student performance assessment to monitor student progress/success.
- 5 Incorporate contemporary emerging issues (e.g. new technologies, alternative delivery systems) into school-based learning initiatives.

## School-Business Partnership Subcommittee

### Purpose

To create ways for communities to enhance relationships between schools and businesses to enhance learning opportunities for students of all ages.

### Goals

- 1 Foster school/business linkages.
- 2 Survey business organizations regionally to determine existing school/business programs.
- 3 Encourage and support the development of new school/business programs.
- 4 Continue the "School-To-Work Expo."

## Planning and Implementation Committee

### Purpose

To promote coordination of programs and initiatives at the local level which will better prepare young adults to make the transition from school to work in an ever-changing, increasingly global economy.

### Goals

- 1 Assist districts with strategic planning.
- 2 Serve as a forum for networking and sharing best practices.
- 3 Develop and implement marketing strategies.
- 4 Foster increased career awareness and establish linkages between area schools and the Career Exploration Link career center.
- 5 Promote the development of applied/integrated curriculum.
- 6 Assist consortium schools with the development of work-based learning opportunities.
- 7 Provide schools with relevant economic information, such as labor market statistics, economic data, and employment projections.

- 8 Facilitate the articulation process.

- 9 Make recommendations to the STW Council and serve as a liaison between the Council and consortium schools.

- 10 Provide technical assistance with data collection and the preparation of state reports.

- 11 Evaluate the success of School-To-Work programs and initiatives.

## Career Center Committee

### Purpose

To provide guidance and help in carrying out the development, implementation, and assessment of the Career Exploration Link which serves as a regional career information resource for students and their parents and schools.

### Goals

- 1 Integrate the Career Center with the one-stop center.
- 2 Develop and implement a marketing plan.
- 3 Develop partnerships which will lead to self-sufficiency for the Career Center.
- 4 Facilitate career guidance for students in all 28 school districts.
- 5 Establish interest bulletin board for state-wide communication.

# School-To-Work Council Bylaws

June 1995

## Article I Name

The name by which this organization shall be known is the School-To-Work Council hereafter referred to as the Council.

## Article II Purpose

**Section 1.** The purpose of this Council is to support the development, implementation, and assessment of School-To-Work initiatives in western Wisconsin. It is also the goal of the Council to see that the mission of the Western Wisconsin School-To-Work Consortium is carried out.

## Article III Membership

**Section 1.** Composition. The representatives, whose skills, interests, and knowledge will assist the program in achieving its goals and objectives, shall come from a cross-section of the communities. Staff will serve as ex-officio members (school-based learning coordinator; work-based learning coordinator; and career center director).

**Section 2.** Number of Members. The total number of members of the Council will be 36.

**Section 3.** Term Length. The length of term for each member will be three years. Terms shall be staggered. Members will be eligible to serve successive terms. Service on the Council will commence July 1 and end June 30. Council must review annually the list of members and student representatives.

**Section 4.** Attendance. Absence of any member for three consecutive meetings without a valid excuse may be cause for removal from the Council membership.

**Section 5.** Vacancies. Vacancies occurring for any reason will be filled by the chair with Council approval.

## Article IV Officers

**Section 1.** Composition. The Council shall elect from its members the following officers: Chairperson, Vice Chairperson, and Secretary.

**Section 2.** Election. The election will be held at the monthly meeting in April of each year by a majority vote of the members. All officers will assume office at the July meeting.

**Section 3.** Terms. All officers will serve for one calendar year. Officers may serve consecutive terms.

**Section 4.** Duties.

- a. Chairperson. The Chairperson of the Council shall preside at all meetings. He or she may call special meetings, with prior notice given, when necessary. The Chairperson of the Council shall appoint all committees with the approval of the Council, and shall be an ex-officio member of all Council committees. If the Chairperson represents education, the Vice Chairperson should represent the business community and the reverse is true if the Chairperson selected is from the business community. In case of resignation or death of an officer, the Chairperson shall appoint a replacement with the approval of the Council members, for the balance of the term.

- b. Vice Chairperson. The Vice Chairperson shall preside and perform the duties of the Chairperson, in his/her absence, and shall perform all other duties that may be assigned by the Chairperson.

- c. Secretary. The Secretary shall keep the minutes of the Council in a book provided for this purpose and shall perform such other secretarial duties as may arise from time to time and as directed by the Council. The secretary will duplicate and mail the minutes to the Council members.

- d. The Director of the School-To-Work office shall not hold an elected office.

## Section 5. Committees.

- a. Standing Committees. Such other committees, standing or special, shall be appointed by the President of the Council.

The Executive Committee will be composed of the Chairperson, the Vice Chairperson, the Secretary, the Director of the School-To-Work office, and the immediate past Chairperson. The Executive Committee is empowered to act on behalf of the Council between meetings. Any action taken by the Executive Committee shall be subject to review by the Council at the following meeting.

Standing Committee chairpersons and committee members will be appointed by the Council Chairperson prior to the first Council meeting each year.

- b. Committee Membership. Appointments of members to serve on standing or special committees may include persons other than members of the Council.

- c. Committee Reports and Meetings. Standing committees and temporary committees will report on a regular basis as committee meetings are held and as directed by the Council.

- d. Orientation. The chairperson will be responsible for the orientation of members of the Council. Appointed committees will receive sufficient orientation and information on the nature of the program to insure that the purposes and the roles expected of each member and the committee will be fulfilled.

**Section 6.** Compensation. No compensation shall be paid Council members for services rendered to the Council, provided, however, reimbursement may be made to Council members for necessary, authorized expenses.

## Article V Meetings

**Section 1.** Regular Meetings. The Council shall meet monthly at a site designated by the Council chairperson.

**Section 2.** Annual Meeting. The annual meeting of the Council shall be held for the purpose of electing officers and any other business as may be necessary.

**Section 3.** Special Meetings. Special meetings may be called by the chair or four (4) members of the Council as deemed necessary, provided seven (7) days notice is given to all members.

**Section 4.** Emergency Meetings. In the event of an emergency, the Executive Committee may meet and take appropriate action on behalf of the Council.

# School-To-Work Council Bylaws

## CONTINUED

**Section 5. Quorum.** One-third (1/3) of the existing members of the Council will constitute a quorum for the conduct of business at any regular or special meeting.

**Section 6. Voting.** At all Council meetings, each Council member shall have one vote. No proxy votes shall be permitted. Simple majority vote of the quorum shall prevail in all matters except those matters which these by-laws require other than a majority vote.

**Section 7. Minutes.** The Council shall keep a correct and complete record of all Council proceedings which shall be attested to by signature of the Secretary.

### Article VI Parliamentary Authority

**Section 1.** Rules of order. Meetings shall be conducted according to Robert's Rule of Order in all areas not outlined by the by-laws.

### Article VII Amendments

Amendments to these by-laws shall be submitted to all members of the Council in writing at least seven (7) days prior to the meeting and shall require a two-thirds (2/3) vote of all members present.

### Article VIII

### Conflict of Interest

No Council member or employee of the School-To-Work Council shall have or acquire any interest, direct or indirect, in any project which the Council is operating or promoting, or in any contract relating to any such project of the Council without making written disclosure to the Council of the nature and extent of his/her interest. No Council member who has such interest shall vote on any matter relating to it. Further, no Council member, officer, or employee of the Council shall violate the conflict of interest regulations as established by funding sources or as established by or contrary to Wisconsin Statutes 181.225 or its successors thereto.

### Consortium Partners

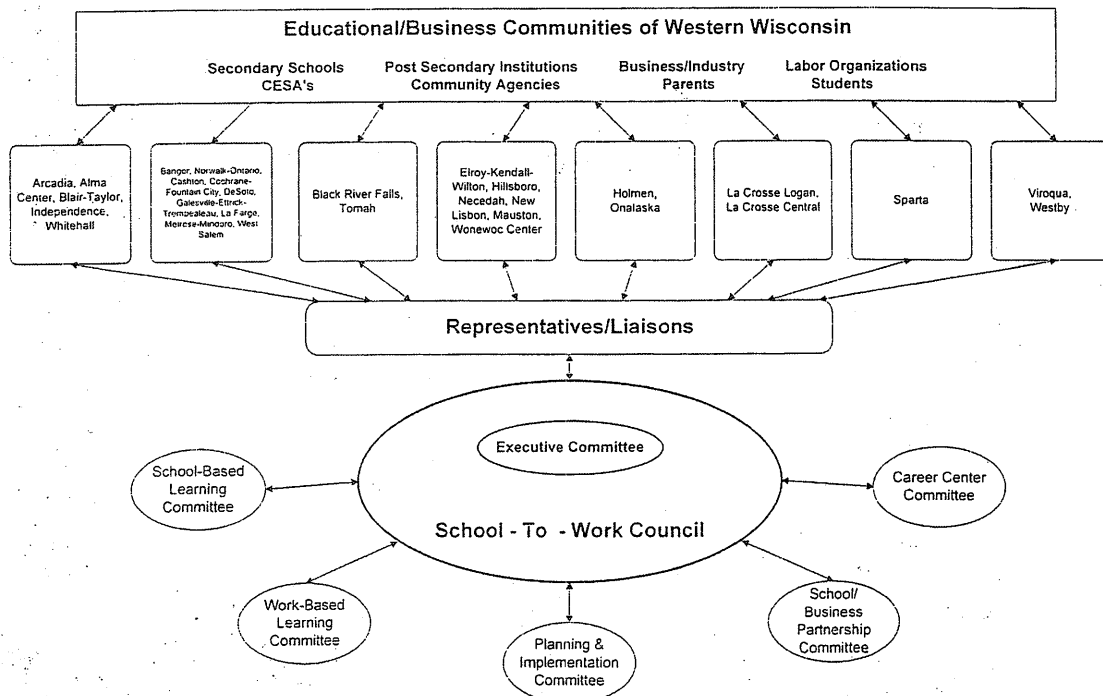
The school districts of Alma Center-Humbird-Merrillan, Arcadia, Bangor, Black River Falls, Blair-Taylor, Cashton, Cochrane-Fountain City, De Soto, Elroy-Kendall-Wilton, Gale-Ettrick-Trempealeau, Hillsboro, Holmen, Independence, La Crosse, La Farge, Mauston, Melrose-Mindoro, Necedah, New Lisbon, Norwalk-Ontario, Onalaska, Sparta, Tomah, Viroqua, West Salem, Westby, Whitehall, Wonevot-Union Center, CESA #4, CESA #5, Western Wisconsin Technical College, Western Wisconsin Private Industry Council, UW-La Crosse, Viterbo College, Job Service, Greater La Crosse Area Chamber of Commerce, District Lodge 66, Machinist Union, Education Committee La Crosse AFL-CIO, area business, parents and students

96-W-1890-A4

# Committee Membership, Communication Structure

## WESTERN WISCONSIN SCHOOL TO WORK CONSORTIUM

### Committee Membership and Communication Structure



Western Wisconsin Technical College will receive approximately \$734,610 in Carl D. Perkins Vocational and Applied Technology Education Act funds from July 1, 1995 to June 30, 1996 to provide school-to-work opportunities and services to assist students with special needs. These federal funds represent approximately 3 percent of the projected College operational budget of \$25,771,612.



# STAR ACADEMY

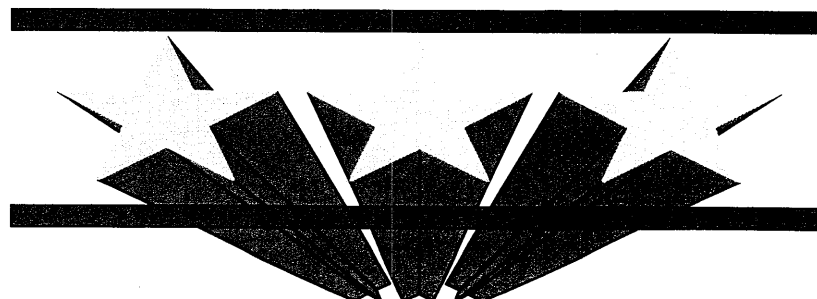
★ Amery High School  
Amery, Wisconsin  
June 14 - 18, 1999



STAR Academy..... "Planet for your summer!"

# At a glance

<i>Integrated</i>	<i>Math</i>	<i>Science</i>	<i>Technology</i>
<b>I-1 Integrating Multi Media and the Wisconsin Standards into Social Studies</b> <i>Grades 3-6</i>	<b>M-1 CORE+ Mathematics</b> <i>Grades 3-6</i>	<b>S-1 Academy Chemistry</b> <i>Grades K-4</i>	<b>T-1 Creating a Classroom Link to the World Wide Web</b> <i>Grades K-12</i>
<b>I-2 Changing Perspectives: NCREL</b> <i>Grades K-12</i>	<b>M-2 So We Have Math Standards, Now What?</b> <i>Grades K-5</i>	<b>S-2 Energy Education: Bring More Energy into the Classroom</b> <i>Grades K-12</i>	<b>T-2 Creating a Classroom Link to the World Wide Web</b> <i>Grades K-12</i>
<b>I-3 Creating Independence Thru Student Owned Strategies</b> <i>Grades 4-12</i>	<b>M-3 Graphing Calculators: From the Box to Your Classroom</b> <i>Grades 7-10</i>	<b>S-3 Third Rock From The Sun</b> <i>Grades K-5</i>	<b>T-3 Tech Talk: Developing Technical Communication Skills</b> <i>Grades 7-12</i>
<b>I-4 Standards &amp; Assessment: Classroom Practices for ALL Students</b> <i>Grades 3-12</i>		<b>S-4 Aerospace Education Services Program</b> <i>Grades 7-12</i>	
<b>I-5 Brain-Based Research</b> <i>Grades K-12</i>			
<b>I-6 Mentoring and Professional Development</b> <i>Grades K-12</i>			





## Star Academy

**STAR Academy**, patterned after the Cray Academy in Chippewa Falls, is a part of the *Wisconsin Academy of Science, Arts and Letters* statewide staff development effort that is partially funded by the *National Science Foundation*. Working collaboratively, CESA 11, UW Stout and the Amery School District we bring you **STAR Academy**.

## Welcome, Teachers!

We are seeking individuals who want to become leaders in their schools. Our learning experiences are for all public and private school educators, PreK-12, who work with students and programs, who create curriculum, instruction and assessment, and who want to learn more about the "art of teaching".

## Graduate Credit

Two graduate credits from **UW Stout** for the full week of participation plus a follow-up assignment related to curriculum development will be available. There will be no additional costs to participants who elect to receive the graduate credit. Requirements and registration forms will be provided at the time of acceptance into the **STAR Academy**. Equivalency clock hours are also available.

## Registration

### Information

#### CESA 11 DDEA Consortium Districts

1-10 participants	\$125.00
10-15 participants	\$100.00
16 or more	call for fee

Tuition Fee: \$125.00

#### Non-Consortium Districts

1-10 participants	\$250.00
10-15 participants	\$200.00
16 or more	call for fee

Tuition Fee: \$250.00

\*Tuition fee is non-refundable.

Individual tuition and registration fees may be paid with district Eisenhower or Goals 2000 Funds. Carl Perkins Funds may be available for high school teachers. Policies vary from district to district and/or grant to grant. Please check with the proper authority in your district for more information.

*Registration deadline is April 30, 1999.*

## Please Note

From this catalog, choose **one** course for your entire week's study.

## Cancellation Policy

It is anticipated that this academy will be sold out. Early registration is encouraged. A full refund of the registration (less an administrative fee of \$10.00) will be made if written notice of cancellation is postmarked by May 15, 1999. The tuition fee is non-refundable.

## Additional Information

For additional information please contact:

**Brenda Ramin**, Director  
STAR Academy  
C/O CESA 11  
225 Ostermann Drive  
Turtle Lake, WI 54889

### Phone

(715) 986-2020

### FAX

(715) 986-2040

### E-Mail

brendar@cesa11.k12.wi.us



# David Sousa



**D**avid A. Sousa is an international educational consultant and author of *How the Brain Learns: A Classroom Teacher's guide* (published by the National Association of Secondary School Principals), and *Learning Manual for How the Brain Learns* (published by Corwin Press). He has conducted workshops in hundreds of school districts on brain research, instructional skills, supervision, and science education at the elementary, secondary and university levels. He has made presentations at national conventions of educational organizations and has served as a consultant to regional and local school districts across the United States, Canada, and Europe.

Dr. Sousa has a Bachelor's Degree in Chemistry from Massachusetts State College at Bridgewater, a Master of Arts in Teaching Degree in Science from Harvard University, and a Doctorate from Rutgers University. His teaching experience covers all levels. He has taught junior and senior high school science, served as a K-12 Director of Science, and as Supervisor of Instruction for the West Orange, New Jersey schools. He then became Superintendent of the New Providence, New Jersey Public Schools. He has been an Adjunct Professor of Education at Seton Hall University, and a visiting lecturer at Rutgers University.

Prior to settling in New Jersey, Dr. Sousa taught at the American School of Paris, France, and served for five years as a Foreign Service Officer and science advisor at the U.S.A. diplomatic missions in Geneva and Vienna.

Dr. Sousa has edited science books and published dozens of articles in leading journals on staff development, science education, and educational research. His current books for teachers, *How the Brain Learns*, and its companion volume, *Learning Manual for How the Brain Learns*, explain the latest research on learning and translates it into practical and effective classroom strategies. He was president of the National Staff Development Council in 1992 and is a manuscript reviewer for the *Journal of Staff Development*.

Dr. Sousa is listed in *Who's Who in the East* and *Who's Who in American Education*, and has received awards from professional associations and school districts for his commitment to research, staff development, and science education. In 1996 and in 1998, Dr. Sousa was awarded the prestigious Expert-in-Residence grant from the W.K. Kellogg Foundation to present his ideas to educators in the Battle Creek, Michigan Area Schools. In May 1998, he was invited on a 10-day trip to the Ukraine as part of an international team that presented educational research and worked with master teachers from some of the former Soviet republics. In August 1998, Dr. Sousa was interviewed by Matt Lauer on the NBC *Today* Show about his work with schools using brain research.

He is facilitating session I-5 and available to work intensively with participants. See the description that follows.



**-1 Integrating Multi Media and the Wisconsin Standards into Social Studies**

*Trish Graves, CESA 11*

Grade Levels: 3-6

The focus of this three-day workshop will be to integrate media and technology resources that actively engage students in learning. The specific emphasis will be on instructional broadcasting programs (NIBS) that emphasize US and Wisconsin history. Educators will work in teams to construct student centered learning experiences that are aligned with the state standards.

*Related Standards:*

*Social Studies*

3. *History: Time, Continuity and Change*  
*Students in Wisconsin will learn about the history of Wisconsin, the United States and the world, examining change and continuity over time in order to develop historical perspective, explain historical relationships and analyze issues that affect the present and the future.*

**I-2 Changing Perspectives: NCREL**

*Nancy Berkas and Cynthia Pattison, NCREL*

Grade Levels: K-12

Have you been looking for a session that will provide school teams access to an excellent collection of resource materials along with an interactive CD ROM that can be used later within their district setting to develop an individual school improvement plan? Each participant will receive a *Changing Perspectives* package containing innovative materials to open and facilitate the planning process in schools so that the entire educational community will be involved in planning for change and setting high standards for all children. Topics covered in depth in the session include: Strategic Processes, Learning Communities, Equity/Diversity, and Standards and Assessment.

*Related Standards: All Academic Areas*

**I-3 Creating Independence Thru Student Owned Strategies**

*Connie Russell, Nationally Certified CRISS Consultant*

Grade Levels: 4-12

*Creating Independence Thru Student Owned Strategies* is a three-day, 1 credit event, that will outline the principles and philosophy of CRISS which provides strategies for presenting CORE knowledge in all content areas through active listening, reading and strategic learning. Discussion and instructional conversations will focus on topics integral to CRISS.

Participants will be required to purchase a \$50 manual for use in this course.

*Related Standards: All Academic Areas*

**I-4 Standards & Assessment: Classroom Practices for ALL Students**

*Kathy Laffin and Tamara Sharp, CESA 11 and Lynnea Lake*

Grade Levels: 3-12

This session will provide general and special education teachers a forum to discuss how to plan and implement standards based classroom practices which meet a wide range of learning needs. Planning processes, strategic instruction, IEP design, data management, and instructional resources will be discussed. A foundation of information on multiple intelligences and effective instructional practices will be provided. This session is most appropriate for grades 3-12, and school teams of special and general education teachers are encouraged.

*Related Standards: All Academic Areas*

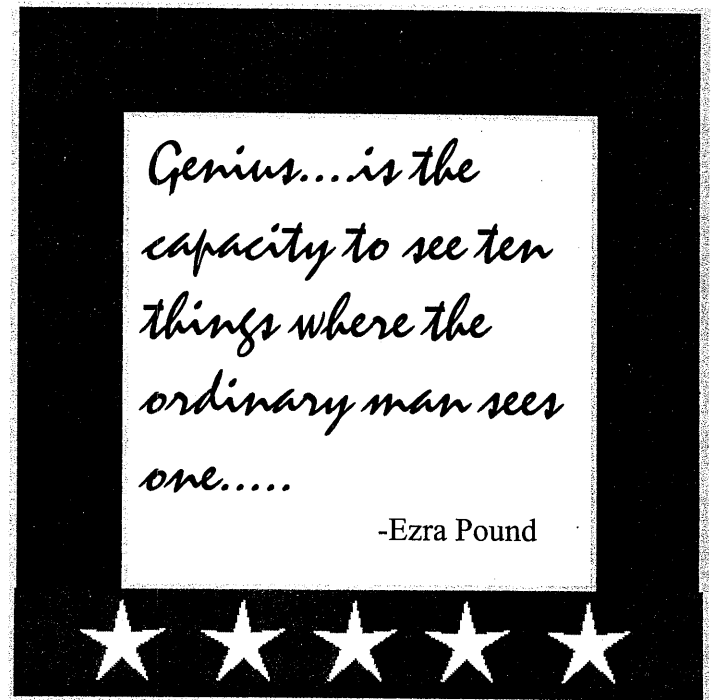
**I-5 Brain-Based Research**

*David Sousa, International Educational Consultant*

Grade Levels: K-12

*Brain-Based Research* offers a rare opportunity to work up close and personal with this nationally recognized authority on brain-based learning. Former Chemistry Teacher and Superintendent David Sousa has written several successful books and will be working with participants on how to integrate his research into their own classrooms.

*Related Standards: All Academic Areas*



**I-6 Mentoring and Professional Development**

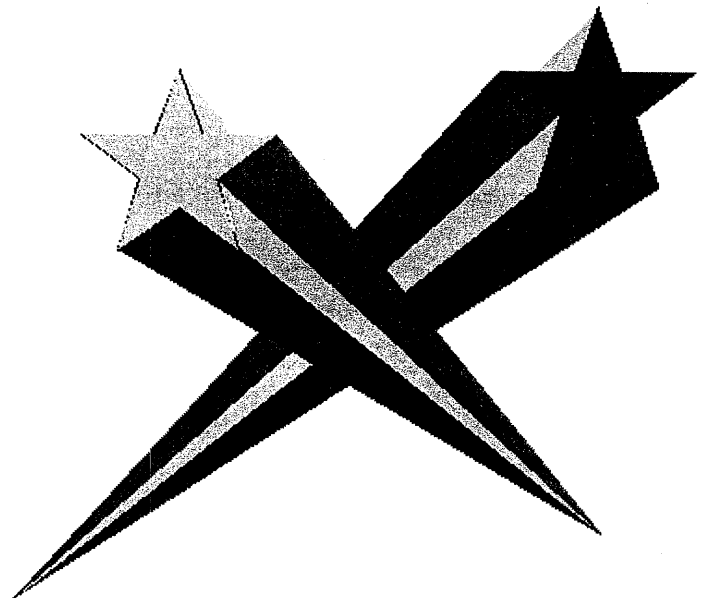
*Trish Graves and Tamara Sharp, CESA # 11*

Grade Level: K-12

Wisconsin Standards for Teacher Development and Licensure have been constructed to change the focus of teacher licensing. This experience will examine those standards as well as the National Accreditation Standards and processes. Teachers will design their own professional development plan and develop a professional portfolio. Mentor teachers (5 or more year's experience) will train to mentor and coach initial educators (teachers with 1-2 years of experience). A framework will be developed to assist districts in replicating the process.

*Related Standards:*

*10 Wisconsin Teaching Standards*





## M-1 Core+ Mathematics

*Jim Adams, Chetek High School*  
Grade Level: 9-12

*CORE-PLUS* Mathematics curriculum was developed by the University of Western Michigan and the National Science Foundation. The curriculum has five distinct elements: emphasis on math modeling, multiple connected strands, access for all students, use of graphic calculators, and active learning. Each year students study four strands: algebra, geometry and trigonometry, statistics and probability, and discrete math. This offering is ideal for individuals working in school districts that are looking for math materials that meet NCTM standards and state standards.

### *Related Standards:*

*Math, Twelfth Grade*

- A. *Mathematical Processes*
- B. *Number Operations and Relationships*
- C. *Geometry*
- D. *Measurement*
- E. *Statistics and Probability*
- F. *Algebraic Relationships*

## M-2 So We Have Math Standards, Now What?

*Kerri Wood, Oaklawn Elementary*  
*Menomonie School District*  
Grade Level: K-5

*So We Have Math Standards*, is for those of you who have been feeling the pressures of standards and implementation and the testing process. Participants will explore the math standards and the assessment process and leave with unit plans that focus on essential learning for all students. Participants should bring curricular materials and resources to be used in this session.

### *Related Standards:*

*Math, Fourth Grade, Eighth Grade*

- A. *Mathematical Processes*
- B. *Number Operations and Relationships*
- C. *Geometry*
- D. *Measurement*
- E. *Statistics and Probability*
- F. *Algebraic Relationships*

## M-3 Graphing Calculators: From the Box to Your Classroom

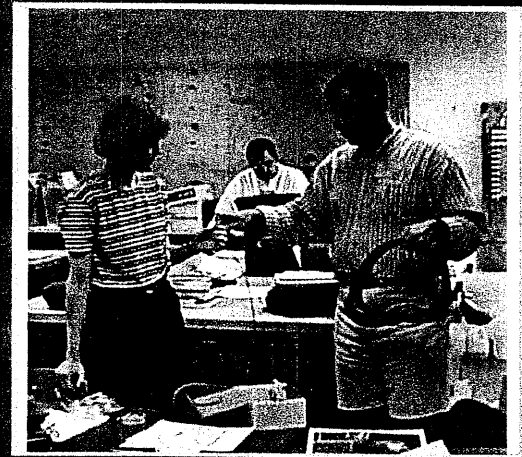
*Rich Sterry, Menomonie Middle School*  
Grade Level: 7-10

*Graphing Calculators: From the Box to Your Classroom* is for you if you have a desire to learn about graphing calculators like the TI-82, TI-83, and TI-92 and practice how to connect them to calculator based laboratories (CBL) to model real world problems. You will also learn about basic calculator features, how to build graphs and tables, how to perform experiments, how to develop assessment techniques for calculator activities, and design your own graphing activities. No experience necessary.

### *Related Standards:*

*Math*

- A12.3 Analyze Problems Using Models*
- C12.1 Properties and Relationships of Figures*
- C12.2 Geometric Models to Solve Problems*
- E12.1 Work with Data in Real World Situations*
- F12.3 Solve Equations Graphically*



**S-1 Academy Chemistry**  
Martin G. Ondrus, UW Stout  
Grade Levels: K-4

*Academy Chemistry* will deliver a hands-on look at the Wisconsin Science Standards that relate to the classification of matter, the collection and interpretation of data, types of chemical reactions, classification strategies along with an overview of the people that have contributed major ideas in science.

*Related Standards:*

Science

- A. Science Connections
- D. Physical Science
- D4 Properties of Earth Materials  
Position & Motion of Objects  
Light, Heat, Electricity & Magnetism

\* Please contact the Director if your district has High School Students who would be interested in attending this session for 1 undergrad credit.

**S-3 Third Rock From the Sun**  
Jane Wisniewski  
Grade Levels: K-5

*Third Rock From the Sun*, will give participants the chance to explore geology and earth science. Teaching strategies, organizational ideas, free resources, guest speaker contacts and related field trip suggestions will be shared. *Sponsored by the Wisconsin Academy of Arts, Letters and Science. The first 20 participants to register will receive a \$100.00 stipend.*

*Related Standards:*

Science

- E. Earth Science
- E4 Properties of Earth Materials
- E8 Structure of Earth System  
Earth's History

**S-2 Energy Education: Bring More Energy into the Classroom**

Grade Levels: K-12

*Energy Education: Bring More Energy into the Classroom*, builds on the enthusiasm we share with our youth for managing our planet's energy related resources wisely. KEEP reflects a wide variety of viewpoints and provides a forum for discussion along with an activity packed, standards-based curriculum for participants to take back to their classroom.

*Related Standards:*

Science

- F. Life & Environmental Science
- G. Science Applications
- H. Science in Social & Personal Perspectives

**S-4 Aerospace Education Services Program**  
Ralph Winrich, Aerospace Education Specialist, NASA  
Grade Levels: 7-12

*Aerospace Education Services Program* will enable the participant to gain a perspective of Aerospace Education through a hands-on look at the Wisconsin Earth and Space Science standards. At the end of this session, participants will be certified to receive lunar and meteorite samples for classroom use.

*Related Standards:*

Science

- E. Earth & Space Science  
*Students in Wisconsin will demonstrate an understanding of the structure and systems of the earth and other bodies in the universe and their interactions.*

## **T-1 Creating a Classroom Link to the World Wide Web**

*Hugh Miller*

Grade Levels: K-12

*Creating a Classroom Link to the World Wide Web* is geared to classroom teachers that are interested in creating a web based tool that may be used to display, modify and update core curriculum materials.

### *Related Standards:*

*English Language Arts*

*E. Media and Technology Science*

*G. Science Applications*

*H. Science in Social and Personal Perspectives*

*Literacy and Technology Education*

## **T-2 Fun With Technology**

*Pete McConell*

Grade Levels: 2-6

This session will engage participants in hands-on multi-disciplinary math, science, and technology activities that build a strong content foundation and then assist them in the integration of the core principles into their curricular needs.

### *Related Standards:*

*Math*

*A4.3 Connect Math with Other Subjects, Experiences, Interests*

*Science*

*G. Science Applications*

*H. Science in Social and Personal Perspectives*

## **T-3 Tech Talk: Developing Technical Communication Skills**

Grade Levels: 7-12

This session is designed for Math, Science, Technology Education and Language Arts teachers interested in learning how to develop technical communication skills in their classrooms. Participants will leave this session with at least 5 technical communication activities ready for their classroom.

### *Related Standards:*

*English Language Arts*

*E. Media and Technology Literacy and Technology Science*

*G. Science Applications*

*A. Mathematical Processes*



The following businesses, industries, agencies, institutions, and individuals are part of an ever-growing group that have demonstrated their commitment and support of the STAR Academy by providing financial contributions, resources, or materials/supplies to the Academy. Their support will enable the STAR Academy to become an integral contributor to school improvement and academic excellence for area students. STAR Academy and the educational community would like to express sincere appreciation for their contributions.

Amery School District  
Amery Community Club  
Amery Regional Medical Center  
Sue Ballard, Polaris  
Larry Connely, 3M  
CESA 11 DDEA Consortium  
Sue Foxwell, UW Stout  
John Gallagher, Cardinal Glass, Amery  
Carl Glocke, WestConsin Credit Union  
Rick Hall, Standing Cedars Land Conservancy  
Dave Hoffman, Elmwood School District  
Wendy Hoffmann, Cumberland School District  
Kathy Jacobson, New Richmond McDonald's  
Dan Lien, Bremer Bank  
Cheryl Meyer, Amery School District  
Bridget Nevin, Grantsburg School District  
Ray Norsted, Amery School District  
Tom Scott, Siren School District  
Jerry Sondreal, Amery Free Press  
Mari Spear, Rice Lake School District  
Tom Tahmahkera, St. Croix Casino  
Lynn West, MRL Industries  
WXCE, Amery