SPRING CONFERENCE
Monday, May 3, 2004
The Farmington Marriott,
Farmington, CT

The Connecticut Association
of Schools
30 Realty Drive
Cheshire, CT 06410

THE CONNECTICUT ASSOCIATION OF ELEMENTARY SCHOOL PRINCIPALS

Presents

LAWRENCE LOWERY

"How People Learn Mathematics and Science"

CAESP ELEMENTARY SPRING CONFERENCE

• Monday, May 3, 2004 •
The Farmington Marriott,
Farmington, CT

SCHEDULE

May 3, 2004

8:00	Registration/ Coffee/ Exhibit Viewing
8:50	Welcome/ Opening Remarks
9:00	Keynote Address

❖ Lawrence Lowery ❖
"How People Learn Mathematics and Science"

The keynote will present ideas on how people become "experts" in math and science and how teachers can move "novices" toward expertise. Some information on how the brain processes and learns will deepen and enrich teaching strategies. Examples will span all the grade levels.

9:45-10:15	Exhibit Viewing
10:15-11:45	Morning Workshop
11:45-12:15	Exhibit Viewing
12:15-2:00	Luncheon
2:00	Afternoon Workshops
3:30	Conclusion

An extensive lunch buffet including 3 main entrees.
Continuously replenished refreshment breaks:

A.M. service features freshly brewed coffees and teas, assorted juices, soft drinks, sparkling waters, fresh whole or sliced fruits, assorted breakfast pastries, breads, bagels and/or croissants.

P.M. service includes freshly brewed coffees and teas, assorted juices, soft drinks, health snacks, fun snacks, and assorted baked goods.

DIRECTIONS

Traveling North: I-95 North to Route 8 North (junction in Bridgeport, CT.) Follow 8 North to I-84 East (junction in Waterbury, CT). Follow I-84 East to Exit 37 - Fienemann Road - refer to EASTBOUND directions below.

-OR-

I-91 North to Route 9 North. Follow 9 North to I-84 West. Take exit 37 - Fienemann Road - refer to WESTBOUND directions below.

Traveling South: I-90 - Massachusettes Turnpike to I-84 West. Follow I-84 West to Exit 37 - Fienemann Road - refer to WESTBOUND directions below.

-OR-

I-91 South to I-84 West (junction in Hartford, CT). Follow I-84 West to exit 37 - Fienemann Road - refer to WESTBOUND directions below.

Eastbound: Follow I-84 East to Exit 37 - Fienemann Road. At end of ramp, turn left at traffic light. At next set of traffic lights turn right, entering drive marked: FARM SPRINGS. The hotel is at the end of this drive.

Westbound: Follow I-84 West to Exit 37 - Fienemann Road. At end of ramp, proceed straight through traffic light, entering drive marked: FARM SPRINGS. The hotel is at the end of this drive.

Participants who attend the **full** conference will be eligible for 0.5 CEUs.
Turn in your name tag at the registration table at the end of the conference to receive your CEU's**.**

REGISTRATION
Fee Information

Agency/School_____ Work Phone _____

Name _____

Address_____

District _____ City _____ State _____ Zip _____

S. S. # _____ Position _____

Please indicate your workshop choice by workshop number:

A.M. _____ 1st Choice _____ 2nd Choice
P.M. _____ 1st Choice _____ 2nd Choice

Registration Fees (includes entire program and lunch):

1. CAS Elementary Member Schools' Personnel — $ 99.00
2. Non-CAS member Elementary Schools' Personnel — $135.00
3. Teams (4 or more from a single school or 6 or more from a single district, deduct from fee): - $ 12.00 each

Please indicate appropriate registration fee:

❑ 1. $99 ❑ 2. $135
❑ 3. Teams: enter total fee _____

Registration should be completed in full & sent with check or purchase order made payable to CAS to:

Dr. Robert F. Carroll, CAS
30 Realty Drive, Cheshire, CT 06410

Questions regarding registration may be directed to the CAS Office at (203) 250-1111.

REGISTRATION/CANCELLATION DEADLINE: *refunds will be made for cancellations after April 23, 2004. No confirmation will be sent. Please pick up your badge & Conference materials at the registration table on the day of the Conference.*

KEYNOTE SPEAKER LAWRENCE LOWERY

Lawrence Lowery is a professor emeritus at the University of California at Berkeley. He was the Principle Investigator for both the EQUALS math program and FAMILY MATH at the Lawrence Hall of Science. He remains active as the Principle Investigator for the Full Option Science System (FOSS), a science curriculum for grades K-8 developed at the Lawrence Hall of Science. Professor Lowery has taught science in every grade K-12. He continues to publish and edit articles and books, the most recent being *The Kingfisher Science Encyclopedia (New*

York 1993), Guideli Implem Science (NSTA 1997), Biologi Thinkin and London, Pathways - nes to enting the Standards publication, The cal Basis for g and Learning (Lawrence Hall of Science Monograph, 1998), How Science Curriculums Reflect Brain Research (Phi Delta Kappan article, November 1998), one of several authors of Teaching for Inquiry (National Science Education Standards Addendum, 2000), Developing Minds (Association for Supervision and Curriculum Development, 2001), and The Nature of Inquiry (NRC, Science, Technology, and Children, 2002).

Professor Lowery has also received numerous awards: *Outstanding Science Educator of the Year (1992) Association for the Education of Teachers of Science (AETS); Distinguished Career In Science Award (1993) National Science Teachers Association (NSTA); Best Software Program in Mathematics (1996) Peter Rabbit's Math Garden, Newsweek Editor's Choice; President's Quality Gold Award (1998) Sandia Laboratories for Distinguished Program (LASER) in Science Education; Induction into the Science Hall of Fame (2002) - State of Texas award for contributions made to science education.*

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Morning Workshops

Please pick 1st and 2nd choices

CAS CENTRAL OFFICE PERSONNEL

1 Designing Curriculum Based Upon How Students Learn

Some fundamental ideas related to learning math and science are important for framing activities or curriculum. These ideas will be exemplified through some hands-on experiences that demonstrate how teaching and learning work together. Be ready to learn something you did not alreacy know.

Presenter: Lawrence Lowery

2 Moving from Arithmetic to Algebra

The National Council of Teachers of Mathematics (NCTM) and

the State of Connecticut each have a standard that calls for Algebra to be taught from the earliest grades. We will look at how arithmetic in an elementary classroom can lead to algebraic thinking. Come prepared to explore hands-on activities!

Presenter: Charlene Tute Nichols, Math Consultant, SDE

3 Achieving the Vision of the New Science Curriculum Framework: Looking Beyond Who Teachers What!

Do you and your colleagues find yourselves fretting over whether your favorite dinosaurs unit must become extinct or snarling about who gets to teach about electricity? This workshop, facilitated by SDE Elementary Science consultant Liz Buttner, will help you see that "aligning" your school curriculum with Connecticut's new Science Curriculum Framework means much more than simply deciding *what* is taught; the bigger change will come in *how* science is taught, learned and assessed. Through group discussion and individual reflection, learn about the 5 elements of effective school science programs, and how your school can make a strategic plan for making science meaningful, exciting and memorable for all students.

Presenter: Liz Buttner, SDE Elementary Science Curriculum Consultant

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Afternoon

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