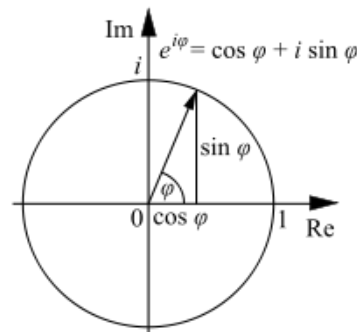


# 2010 Kieval Lecture Series

Featuring Donald Crossfield of Roseburg High School

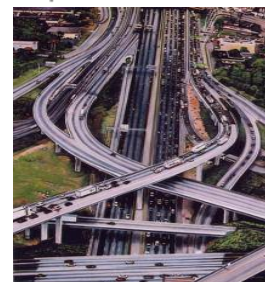
## Thursday, Feb 25, 2:00 p.m. “Euler: Mathematician Extraordinaire (and an even better teacher!!)” in Science 118

$\sum_{n=1}^{\infty} \frac{1}{n^2} = \frac{\pi^2}{6}$  There is reasonably widespread consensus that four names are at the pinnacle of mathematics achievement throughout all of history: Archimedes, Newton, Gauss and Euler. Try reading each. For clarity and expository skills, Euler reigns supreme. We'll explore some of his more famous discoveries and get a feeling for why subsequent mathematicians exhorted their colleagues to “Read Euler, read Euler. He is the master of us all!”



## Thursday, Feb 25, 7:00 p.m. “Number Sense: in the Classroom and on the Highway” in Science 118

Market Street, in Salem, is Exit 256. Isn't that cool? Brownsville is Exit 216. Every mile the Oregon Department of Transportation puts out a neat sign with numbers on it. A trip along I-5 could be a journey among friends, if only we had an amicable relationship with numbers.



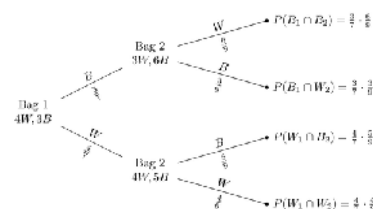
## Friday, Feb 26, 9:00 a.m. “Grow/Shrink: A Gentle Way to Talk about a Wide Valley of Foundational Mathematics” in Taylor 28/31



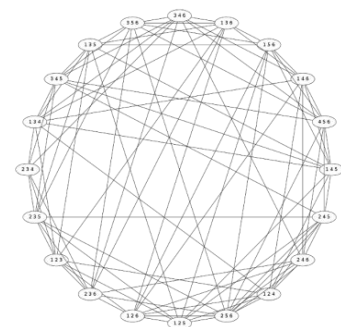
I've had a few really good ideas in 37 years of teaching. One was asking my wife to marry me. Another was making the concept of grow/shrink central to whatever math topic we were currently exploring. Now that students are grasping its power, I'm amazed when they demonstrate additional places where they've used it to cut through algebraic cobwebs and geometric distractions. It's easy to say and use, and pays big dividends.



## Friday, Feb 26, 3:00 p.m. “Probability and Statistics...Not enough math for you to win at poker, but (odds are) more entertaining than an evening at a casino.” in Science 118



Did Reagan really say that (in the Carter/Reagan debate)? Why shouldn't you expect the expected value? Why your chances of winning your girlfriend back aren't as good as you think... If you have to guess an arithmetic answer, guess its binary representation. Florence Nightingale, average college class sizes, the accuracy of drug testing, why racism invariably picks on



minorities, goats and red-faced math professors, and which financial advisors to trust.....all in a gently mathematical presentation, designed to get you thinking happily about the impact of applied (and mis-applied) probability and statistics notions in our world.

### About Don Crossfield, Roseburg High School:

Thirty-seven years ago, Don began teaching high school mathematics in Roseburg, Oregon. He's still there, despite nefarious (and false!!) rumors of an impending retirement. He is a frequent contributor to various mathematical journals, and has enjoyed sharing math insights and pedagogical tidbits at math conferences internationally. He has taught televised Calculus to students across Douglas County, spoke at Howard Eves' 80<sup>th</sup> birthday party in Florida, and he was a co-writer of a CD on Math History topics put out by NCTM. He was one of 50 educators chosen as Tandy/Radio Shack National Educators of the year in 2000, and his current Calculus class recently voted him "...one of the coolest math teachers ever to have written and performed math songs for YouTube".