



April 2009



Matters Mathematical
The Newsletter of the Pacific Northwest Section of the Mathematical Association of America

ELLENSBURG MEETING

April 2009

By James Harper

Aside from the occasional snow squall on Snoqualmie Pass, participants and their guests were greeted with beautiful spring weather for the annual meeting of the Pacific Northwest Section of the MAA held in Ellensburg on April third and fourth of this year.

Project NExT kicked off the weekend activities Friday morning at 7:45. This session included five panel discussions on teaching with a host of invited speakers and distinguished guests including Polya Lecturer George Andrews. For a further account of these activities, see the “Project NExT” article in this newsletter.



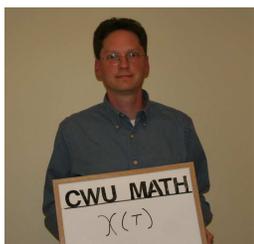
Saturday Night Reception

Friday afternoon featured three informative minicourses. Stan Wagon of Macalester College gave an introductory course on *Mathematica* while the University of Washington’s William Stein showcased the open source alternative computer algebra system *Sage* (see article on page 5). George Andrews led the third minicourse on his favorite subject—partitions.

The PNW section makes a concerted effort to have the Spring meetings student friendly. Out of the 201 total attendees of the meeting, 102 were students! Nearly 40% of these students were brought in by Donna Pierce of Whitworth College (25 students) and our outgoing governor, Nancy Neu-

(Continued on page 5)

PNW MAA Elects New Officers



Stuart Boersma

Stuart Boersma (Central Washington University) is the new PNW MAA Section Governor. The new section chair is **Jen Nordstrom** (Linfield College). Congratulations to both!



Jennifer Nordstrom

Contents	
PNW MAA Meeting	1
New Officers	1
PNW MAA DTA: Tom Dick	2
Project NExT	3
Upcoming Events and Conferences	4
Treasurer’s Report	6
WWCC Conference	6
NUMS Conference May 9	7
Editor’s Greetings	7
Section News	8-10

Tom Dick, Oregon State University, Receives PNW MAA Distinguished Teaching Award



Tom Dick

Congratulations to **Thomas P. Dick**, Oregon State University, on his selection as the 2009 Pacific Northwest Section winner of the MAA Award for Distinguished College or University Teaching of Mathematics. Professor Dick has been extremely influential in the use of technology in mathematics teaching, especially calculus, and has profoundly affected students and mathematics teachers through his leadership in the OSU Math Excel program, OSU Calculus Connections program, Oregon Collaborative for Excellence in the Preparation of Teachers, and the Oregon Mathematics Leadership Institute.

In 1994, Tom and his collaborator, Dick Patton, were among the first to exploit the potential of graphing calculators in improving calculus instruction. As one of three Senior Math Consultants for the Texas Instruments calculator division, Tom remains a national leader in promoting effective use of technology at all levels of mathematics instruction. He directed a major NSF calculus reform curriculum development project and was instrumental in the Advanced Placement Calculus program, including serving as chair of the AP Calculus Development Committee.

Founded by Professor Dick in 1998, the OSU Math Excel program—based on the Treisman Emerging Scholars model—has significantly impacted students. For the last ten years, this program has provided students in college algebra, precalculus, differential, integral, and multivariable calculus the opportunity to work collaboratively with other students on challenging problems related to their mathematics coursework. Tom continues to serve as the Faculty Director for the Math Excel Program in addition to Coordinator of Collegiate Mathematics Education and Faculty Director of the OSU Mathematics Learning Center.

Tom is currently the PI or Co-PI of two major NSF projects, both of which are focused on mathematics education. The Northwest Regional Educational Laboratory studies a mathematical problem solving professional development program. The Oregon Mathematics Leadership Institute Partnership project (OMLI) is building school-based leadership teams of teachers in over 80 schools in ten Oregon school districts. Hundreds of Oregon in-service teachers have participated in the OMLI summer program and been profoundly affected. One participant said of Tom, “Although he is a brilliant mathematician, he has the knack of explaining mathematics in a language that makes sense, whether talking with a first grade teacher or a fellow mathematics professor.” His deep understanding of mathematics and his humble manner have made him highly respected in the mathematics community at every level.

Tom is the only full professor in the College of Science at Oregon State University to have won all three of the College's major awards for teaching and advising. He is the most recent recipient of the University-wide *Elizabeth P. Ritchie Distinguished Professor Award*, and in 2008 he was named to the *Oregon Mathematics Education Hall of Fame*. The Pacific Northwest Section is proud to honor Thomas Dick for his distinguished contributions in teaching at Oregon State University and beyond.

PNW Project NExT at the Section Meeting in Helena, Montana

By Klay Kruczek



Klay
Kruczek

The Pacific Northwest Section NExT Meeting of 2009 in Ellensburg, WA began with its fifth annual pre-NExT dinner and discussion on Thursday evening, April 2 at The Road House. Friday's meeting was attended by thirty-five PNW Section NExT Fellows, National NExT Fellows, consultants, speakers, and Project ACCESS Fellows. We had one new PNW section Fellow this year, Robert Ray (Gonzaga University).

The day's first session, organized by Klay Kruczek (Western Oregon University), focused on teaching introduction to proofs classes to mathematics majors. Michael Ward (Western Oregon University) gathered data on the percentage of schools that offer such a course, how many schools require the course, and what topics are typically covered in the course. Brian Blitz (University of Alaska Southeast) and Vesta Coufal (Gonzaga University) also served on the panel and explained their experiences with the course. The attendees initially explained how their school runs their equivalent course. The discussion then centered on how effective such a course actually is and if students should learn about proof techniques in a stand-alone course or in a content course like discrete mathematics or real analysis. The final question discussed was what the prerequisites should be for an introduction to proofs class. Answers ranged from differential calculus up through multi-variable calculus.

The next topic of the day was "Probability and Statistics for Non-Majors." Organized by Scott Beaver (Western Oregon University) and Cheryl Beaver (Western Oregon University), panelists Yvonne Chueh (Central Washington University), Brian Gill (Seattle Pacific University), and Andria Villines (Bellevue Community College) revealed the topics and techniques they use in these courses, as well as the audiences they serve in these particular courses. Panelists also discussed the textbooks they use and the resources they have found for these courses on the Internet.

For the first time at our NExT meeting, we had the panelists for a session off site. The session entitled Me and You and You and Me, organized by Mark Fitch (University of Alaska Anchorage), was about distance education, appropriately. Gail Johnston (University of Alaska Anchorage) and Christina Negoita (Oregon Institute of Technology) explained how they conducted courses in algebra and discrete mathematics, respectively. Gail and Christina showed the materials their students can access on line. Mark

(Continued on page 6)

Interested in Project NExT?

Project NExT (New Experiences in Teaching) is a professional development program for new or recent graduates in the mathematical sciences (including pure and applied mathematics, statistics, operations research, and mathematics education). It addresses all aspects of an academic career: improving the teaching and learning of mathematics, engaging in research and scholarship, and participating in professional activities. It also provides the participants with a network of peers and mentors as they assume their new responsibilities.

1. What are the requirements for the national program?

Applicants for the national program must have a Ph.D. in the mathematical sciences and be in the first two years of a full-time college/university teaching position. For more information, visit <http://archives.math.utk.edu/projnext>

2. What are the requirements for the PNW Project NExT section?

Applicants for the PNW section must have a Ph.D. or a master's degree in the mathematical sciences and be within the first four years of full-time teaching at a college, university, or community college in the PNW. For more information, visit <http://www.math.umt.edu/pnwnext/> or contact Jenny McNulty at McNulty@mso.umt.edu.

3. How often do we meet?

Participants in the national program meet at two consecutive MathFests and at the intervening Joint Meetings of the AMS and MAA. Participants in the section NExT meet at two consecutive PNW MAA meetings.

4. When can I apply?

This year's deadlines have passed. For more information, visit the websites listed above.

Upcoming Events and Conferences

Upcoming Meetings:

May 9, 2009: NUMS Conference at Oregon State
(see article page 7)

2009 MathFest in Portland, OR

2010 PNWMAA at Seattle University

2011 PNWMAA in Juneau, Alaska (confirmed)

<http://www.math.ubc.ca/~cayf/events.html> (section)

http://www.maa.org/subpage_4.html (national)

2010 PNW MAA Meeting at Seattle University

The 2010 meeting will be held at Seattle University
April 9 and 10.

The program committee is busy lining up invited
speakers that will particularly appeal to students.

Seattle University is located one mile east of down-
town Seattle, with numerous hotels and hospitals
within easy walking distance.

Notes on MathFest 2009

by Ken Ross

Next summer, the MAA's MathFest will be held in Portland, Oregon. The dates are August 6-8, 2009. The known speakers are:

MAA Hour Speakers:

1. Alice Silverberg (University of California at Irvine), number theory
2. Steven Strogatz (Cornell University, Department of Theoretical and Applied Mechanics), small world networks
3. Alan Taylor (Union College), theory of voting and fair division
4. Greg Warrington (Wake Forest University), algebraic combinatorics

Hedrick Lecturer: Ravi Vakil, an algebraic geometer at Stanford

Silver & Gold MC: our own Afton Cayford (U of British Columbia)

Silver & Gold speaker: Bob Osserman (Stanford University and MSRI)

Members of the section are invited to submit proposals for organizing a (special) session for this MathFest. They should be submitted to the MAA Associate Secretary, Gerard Venema,

venema@calvin.edu

or the chair of the Program Committee, Ken Ross

rossmath@pacinfo.com

or better yet submitted to both of them. Contact Gerard Venema for more information about scheduling.

(Continued from page 1)

dauer of Pacific University (15 students). A student reception was held Friday night with pizza, soft drinks and a showing of the animated feature *Flatland, the Movie*. About 60 students, faculty and friends attended this reception.

Shortly after the student reception Friday night, Stan Wagon enlightened us with *Impossible, Unbelievable, ..., but True Results of Mathematics*. Crowd favorites included his square wheeled bicycle at Macalester College and his cake puzzle problem.

Saturday morning, George Andrews gave the next invited address on *The Lost Notebooks of Ramanujan*. Andrews related the fascinating story of how he stumbled on these 100 or so pages of mathematics written by Ramanujan in India during the last year of his life. This was truly a fascinating discovery of beautiful mathematics.

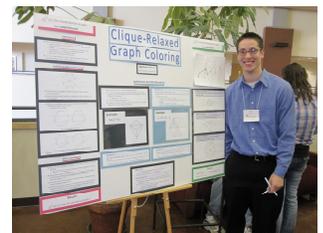
The contributed paper sessions featured four special sessions along with the well attended *Undergraduate Research* sessions. New this year was a student poster session which showcased the work of six undergraduates. It will be exciting to see student participation in this event grow in the coming years.

Saturday afternoon's invited address was given by William Stein: *Open Source Mathematical Software*. Stein gave a brief history of how he and some of his colleagues devised and wrote the computer algebra system *Sage* – a free alternative to Mathematica and Maple. He also gave a few demonstrations on its simplicity and utility.



Nancy Neudauer

The final activity of the meeting was the Saturday night banquet, awards ceremony and Stan Wagon's second invited address. The post banquet ceremonies included the section's first ever awards for student presentations and posters. The top four undergraduate research presentations went to: 1st Place: Amber Goodrich, Geoff LaBrant and Sara Hanold, "Modeling Energy Consumption and Phone Use" (Central Washington University); 2nd Place: Matthew Schmidgall, "Rubik's Cube Cipher" (Western Oregon University); 3rd Place: Masaki Ikeda, "Random Juggling: Which State Happens the Most?" (Western Oregon University); 4th Place: Kaylee Linthicum, "Large Scale Linear Programming and Heuristic Algorithms" (Seattle Pacific University). The best poster award went to William Sehorn of Whitworth College for his poster presentation "Clique-Relaxed Graph Coloring."



Will Sehorn

Certificates for 25 and 50 year membership in the MAA were announced. The 25-year certificates were awarded to J David Koon and Eric E Wakkuri. There were an astounding six 50-year certificates awarded: Russel L Abraham, LeRoy M Damewood, Richard W Lambert, Edgar L Stout, Elmar Zemgalis and Theodore W Palmer.

Every year the PNW-MAA likes to identify an individual who has received the recognition of his or her peers and students as an outstanding teacher. This year the section recognized Tom Dick from Oregon State Univer-

SAGE Days 15 To Be Held at UW

Sage is the free open-source software package for symbolic, exact and numerical mathematics. It aims to be comprehensive and easy to use, since it is devoid of the usual restrictions of the licenses used for similar commercial software. Sage is almost entirely the work of volunteers from around the world, but is headquartered in our section at the University of Washington.

"Sage Days 15" will be held in Seattle in mid-May. On Saturday, May 16, on the University of Washington campus, there will be several talks on using Sage in teaching. These should be of special interest to members of the PNW MAA. There will also be several talks on May 17 to attend, but these will be oriented more towards Sage development and applications in research areas.

A schedule and further details will soon appear at <http://wiki.sagemath.org/days15>

(Continued on page 7)

PNW MAA Treasurer's Report

Beg. balance 12/31/2007 \$10,697.49

Revenues

MAA Subvention \$1,670.00
Meeting Income \$1,800.00

Total Revenues: \$3,470.00

Expenses:

Honoraria \$2,000.00
Project NExT \$88.25
Halmos Brick \$303.00

Total Expenses \$2,391.25

Ending balance 12/31/2008 \$11,776.24

The section currently has a healthy balance. Of the funds shown to the left, \$1277.33 belongs to Project NExT and Project Access, leaving a total of roughly \$10,498.91 for the balance in the section.

The Carroll College meeting expenses have not yet been finalized, so the meeting income shown is an estimated net amount.

— Chris Black

(Continued from page 3)

showed the materials Hilary Davies (University of Alaska Anchorage) uses in her course in differential equations.

We were very pleased to have George Andrews (AMS President) and Michael Pearson (MAA Associate Executive Director) discuss research in Undergraduate Mathematics Education and what is happening in the MAA, respectively. Michael called for sections and individuals to help with adapting to the changing environment.

The final panel of the day, organized by Nancy Ann Neudauer (Pacific University), presented their thoughts and experiences with technology in the teaching of mathematics. Hans Nordstrom (University of Portland), William Stein (University of Washington), Stan Wagon (Macalester College), and Jane Whitmire (Central Washington University) expressed their opinions about how much of a role technology should play in the classroom and what computer software should be used and is most effective in teaching students, but it was clear that all panelists agreed that technology should be used as a tool in problem solving. To learn more about Project NExT, visit <http://www.math.umt.edu/pnwnext/>.

Third Annual Western Washington Community College Student Math Conference

On Saturday, February 21, 2009, 43 students and 14 community college faculty gathered at Green River Community College for the 3rd annual Western Washington Community College Student Mathematics Conference. During the 5-hour meeting they heard a variety of student and faculty presentations and the keynote talk, Fabulous Fibonacci Numbers, by Jennifer Quinn (UW-Tacoma). Three years ago Mike Kenyon (Green River), Paul Casillas (Clark) and Dale Hoffman (Bellevue) decided community college students deserved to share in the fun of math talks and meetings and the first meeting was organized. Registration is free, and pizza and door prizes are provided. This year's meeting also included students and faculty from Big Bend, Edmonds, and North Seattle. Funding for the WWCCSMC has been provided by NSF grant DMS-0536991 through the MAA Regional Undergraduate Mathematics Conferences program, www.maa.org/RUMC/ and by local sources. Details about the 4th annual meeting late next February will be available at

<http://scidiv.bcc.edu/wwccsmc/>

(Continued from page 5)

sity as the 2009 recipient of the Distinguished Teacher Award (see article page 2). Many section members are aware of the time and effort Professor Dick has committed to undergraduate mathematics education over the years. The section sends out a hearty “congratulations” to Tom.

The meeting concluded with Stan Wagon’s invited address *A Computational View of the Four Color Problem for Planar Maps*. Although Alfred Kempe was mistaken that his coloring algorithm proved the four color conjecture, Stan illustrated how well this algorithm works despite its shortcomings. In a reprise performance from Friday night, Stan also illustrated how to use a laptop webcam and a feedback mechanism to generate a Julia set. Another crowd favorite was his pictures of the mathematical snow sculptures that he and his colleagues made for the St. Paul Winter Festival.

Our next meeting will be hosted by Seattle University, April 9 – 10, 2010.

Acknowledgements

It takes time and dedication to organize these yearly meetings and, fortunately, our section has dedicated volunteers to do the job. This year we would like to give our congratulations and thanks to the following individuals: Dan Curtis (local arrangements chair), Stephen Glasby (invited speaker chair), Hans Nordstrom (contributed paper coordinator), Jim Harper (student reception coordinator), Aaron Montgomery (CWU department Chair), and Debbie Thomas (CWU secretary and administrative assistant). Recognition should also be given to all the special session organizers: Michael Aristidou, Jim Bisgard, Sergey Lapin, Gary Parker, Donna Pierce, Stephanie Salomone, Elissa Schwartz, and Kathryn Temple.

NUMS Conference May 9

Call for Undergraduate Presentations

Announcing the Northwest Undergraduate Mathematics Symposium at Oregon State University in Corvallis on Saturday, May 9, 2009.

The OSU Math Club and the Pi Mu Epsilon Oregon Beta Chapter invite all mathematics students in the Pacific Northwest to present their work at NUMS this spring. First-year graduate students are welcome to present research completed while still undergraduates. This venue will be excellent preparation for the upcoming MathFest in Portland.

Prizes in various categories will be awarded (including longest distance traveled to attend!). Travel support may be available, inquire to nums@math.oregonstate.edu. Lunch will be provided. Games and contests will be enjoyed during a social intermission.

For more information, and to register your abstract online, visit

<http://oregonstate.edu/groups/mathclub/nums>

Registration deadline is Apr 27, so hurry!

Editor’s Greetings

Thanks once more to all contributors. I want to point out two upcoming conferences:

1. NUMS — see the box above this note. The deadline is soon, so register right away. It would be great to have a regular undergraduate conference in our section.
2. Be sure to spread the word on MathFest, which will be in Portland, Oregon this year. I’d love to see the venue overrun with students!

One other thing: I am on sabbatical in the fall. If anyone would like to take that opportunity to put together the fall newsletter in my stead, please just say the word — it’s a one-issue commitment!

Colin Starr, cstarr@willamette.edu

SECTION NEWS

Alaska

Dr. Tommy Wright, Chief of the Statistical Research Division, U.S. Census Bureau, visited the Mathematical Sciences Department at the **University of Alaska Anchorage** on March 26. He met with students and faculty and gave three presentations. They included an informational talk on his career, Concepts in Probability Sampling and Research Topics and Opportunities at the U.S. Census Bureau, and a presentation to the Mathematical Statistics II class.



Megan Buzby

Megan Buzby, from CSU in Fort Collins, Colorado, will join the faculty of UAS in Juneau in Fall 2009. Her area of specialization is in ecological (biological) mathematics. She will

strengthen our program in the area of interdisciplinary applications of mathematics and statistics.

At the CWU meeting it was confirmed that the Summer 2011 meeting will be held at UAS in Juneau. **Professor Hay-Jahans** will create a website started with information about the Juneau area for interested parties. The link will be located on the UAS Math website,



Chris Hay-Jahans

<http://www.uas.alaska.edu/math/>.

British Columbia

The Department of Mathematics and Statistics at the **University of Calgary** welcomes **Deniz Sezer** and **Veronique Godin**. Deniz

joined the department as an Assistant Professor in August 2008 after a post-doctoral fellowship at York University in Toronto. She earned her Ph.D. from Cornell University in 2005. Her research interests are in Markov processes, superprocesses, and mathematical finance.



Deniz Sezer

Veronique also joined the department in August 2008 as an Assistant Professor. Prior to that, she was the Benjamin Peirce Assistant Professor at Harvard and a Member of the Institute of Advanced Studies from 2004 to 2005. She earned her Ph.D. from Stanford University in 2004. Her research interests include algebraic and geometric topology.



Veronique Godin

Bill Sands has trained virtually all of Canada's "mathletes" in the decade he chaired the Canadian Mathematical Society. For his commitment to nurturing young minds, he's been awarded the Canadian Mathematical Society's 2008 Graham Wright Award for Distinguished Service. For more information, visit



Bill Sands

<http://www.ucalgary.ca/news/utoday/march6-09/sands>

Oregon

The **Math Education Group** in the Department of Mathematics & Statistics at **Portland State University** was pleased to have **Eva Thanheiser**, PhD join the faculty in January, 2009. Eva graduated from University of California San Diego/San Diego State University with a PhD in mathematics education in 2005. Eva's research interests are pre-service elementary teachers' understanding of mathematics, particularly whole number operations.

Michael Shaughnessy is the next president elect of the NCTM. From the NCTM website: "J. Michael Shaughnessy is NCTM's next president-elect.



Shaughnessy is currently a professor at Portland State University. In addition, he has taught at Oregon State University and has had visiting professorships in Spain, Australia, and New Zealand.

As NCTM president-elect, Shaughnessy will work alongside current President Henry (Hank) Kepner from April 2009 to April 2010. Then he will take the reins as NCTM president (2010-12).

Shaughnessy pledges to work to ensure that all mathematics teachers and students have opportunities to create learning environments that reward perseverance and respect and promote students' reasoning as a primary goal. He would also like to see the Council expand its efforts to provide more pathways for re-

search to guide practice. We will need to work hard to help influence public attitudes and beliefs about mathematics and about the role of research in mathematics education in order to reach these goals, he said."

The **Department of Mathematics at the University of Portland**



Hannah Callender

hired two new colleagues over the winter. **Hannah Callender** and **Valerie Peterson**, will join the department in the fall. Hannah earned her Ph.D. from Vanderbilt in 2007 and has research interests in mathematical biology and biomathematics education. Valerie is finishing her Ph.D. at UIUC this year; her research interests include geometry, topology, and geometric group theory.

Valerie Peterson



Valerie Peterson



David Kroon



Mike Akerman

Hannah and Valerie replace retiring colleagues **Mike Akerman** and **David Kroon**. David has been a section member for 25 years and both have been valued members of the department and will be missed.

Mary Beisiegel will be joining the staff of **Western Oregon University** in fall of 2009. She is finishing her Ph.D. in Mathematics Education from the University of Alberta. Her other accomplishments include a B.S. in Math from Oregon State University, an M.S. in Math from Virginia Tech, and a M.S. in Statistics from the University of Alberta.



Mary Beisiegel

The Mathematics Department is very excited about their move into a new building. As of Fall 2008, the department has moved from Arnold Arms into the structurally sound Math and Nursing Building. Arnold Arms will (literally) be burned later this month.

The mathematics Department at **Willamette University** is bidding farewell to a 44-year veteran. Professor **Steve Prothero** is retiring after forty-four years on Willamette's faculty. His students have spanned three generations: he has taught children and grandchildren of former students. He has also been the coach of the golf team. The department will miss his unique historical perspective, his experience, and his sense of humor.



Steve Prothero

The department is very pleased to welcome **Kathryn Nyman**, who is replacing Professor Prothero. Kathryn joins the department from Loyola University Chicago. She earned her Ph.D. from Cornell in 2001. Her research interests are in

the area of algebraic combinatorics.

Inga Johnson was awarded tenure this year and was promoted to Associate Professor. The department congratulates her!



Inga Johnson



Washington

Larry Curnutt will be retiring from the Math Department at **Bellevue Community College** in June of 2009. Always a champion of calculus reform, supporting students in mathematics, and mentoring new faculty, Larry will be dearly missed.



Larry Curnutt

BCC's Math Department has hired three new faculty over the past two years. **Martha Stevens** (M.S. in Atmospheric Science from University of Washington) and **Sunmi Ku** (M.S. in Applied Mathematics from Florida State University) joined the department in Fall 2007, and **Simrat Ghuman** (M.A. and Ph.D. in Mathematics from Rice University) came on board in Fall 2008. The college is slated to add another two new faculty members to the Math Department in 2009.

The Mathematics Department at **Seattle University** has been fortunate to hire two new tenure track faculty members for 2009-2010. **Dr. Allison Henrich** is a knot theorist who has a PhD from Dartmouth College, undergraduate de-



Allison Henrich

degrees in mathematics and philosophy from the University of Washington, and was an assistant professor at Oberlin College. **J. McLean Slough** is currently completing a PhD at the University of Washington in the department of statistics and has undergraduate degrees in mathematics and psychology from Gonzaga University.

To honor **Sister Kathleen Sullivan**'s passion for teaching and loyal service to Seattle University and her deep commitment to instilling in young girls a love of mathematics and science, Seattle University has established the Sister Kathleen A. Sullivan, RSCJ Endowed Professorship in Mathematics. An emphasis of the endowed chair is to continue the tradition of mathematics outreach to the Seattle community, with the goal of increasing the number of students who pursue higher education in mathematics, science, and computer science.



Kathleen Sullivan



Kevin Vixie

The Mathematics Department at **Washington State University** has had several hires into tenured or tenure track positions): **Tom Asaki** (Applied Optimization, Image and Data Analysis), **Anna Johnston** (Cryptology, Information Theory), **Libby Knott** (Mathematics Education), and **Kevin Vixie** (Geometric Analysis, Image and Data Analysis).



Libby Knott

Duane De Temple is retiring from Washington State University.

Dr. De Temple has spent 36 years sharing his time and love of problem-solving with his students. He has been eager to enhance learning by presenting mathematics in ways that engage students who have been "turned off" or told they could not succeed in understanding mathematics. His efforts to present concepts in new and interesting ways have reached a wide audience in the form of many scholarly papers, presentations at symposia, handbooks and textbooks. His contribution is richly reflected in the enthusiasm of many current and former students, who attribute their successes as teachers to his inspiration. Dr. De Temple was the recipient of the 2007 WSU Sahlin Faculty Excellence Award for Instruction and the Pacific Northwest MAA Distinguished Teaching Award.



Duane DeTemple



Robert Dillon

The Ostrom Lecture Series speakers at WSU were John Milton (2008) and Tony F Chan (2009), "What's Math Got To Do With It?"

WSU congratulates four faculty for their recent promotions: **Robert Dillon** (Full Professor), **Jeanette Martin** (Senior Instructor), **Judith McDonald** (Full Professor), and **Kim Vincent** (Clinical Associate Professor).

Additionally, **K.A. Ariyawansa** is the new Chair of the Department, replacing Acting Chair **V.S. Manoranjan**.



Kimberly Vincent