

Washington State
Two-Year College
Math Conference



SPRING 2002



APRIL 11-13



Yakima Convention
Center





ROOM	SQ. FT.	DIMENSIONS (LxWxH in Feet)	THEATER	CLASSROOM	BANQUET (Rounds of 10)	RECEPTION	EXHIBITS (8x10)
Grand Hall	23,568	23x90x259	2250	925	1600	3300	157
A	1575	45x35x15	150	50	90	225	8
B	1575	45x35x15	150	60	90	225	8
C	5880	90x62x15	530	220	380	800	38
D	5850	90x65x15	560	230	390	836	38
E	5612	92x61x23	545	220	390	800	31
F	1080	30x36x23	105	45	70	150	5
G	1080	30x36x23	105	45	70	150	5
H	1080	30x36x23	105	45	70	150	5

WS2YCMC 2002 PROGRAM

Date	Time	Event
Thursday, April 11	1:00 pm—5:00 pm	Preconference Workshop
	5:30 pm—7:30 pm	Registraton
	7:30 pm—8:30 pm	Opening Speaker Paul Casillas
	8:30 pm—10:30 pm	Social Hosted by Thomson Learning
Friday, April 12	7:00 am—8:30 am	Breakfast Buffet
	7:30 am—8:30 am	WAMATYC Annual Meeting
	8:45 am—11:15 am	Publishers' Exhibits
	9:00 am—10:00 am	Session I Presentations
	10:00 am—10:30 am	Beverage Break
	10:30 am—11:30 am	Session II Presentations
	12:00 pm—1:00 pm	Lunch
	1:30 pm—2:30 pm	Session III Presentations
	2:30 pm—3:00 pm	Beverage Break
	3:00 pm—3:30 pm	Session IV Presentations
	3:30 pm—3:45 pm	Beverage Break
	3:45 pm—4:15 pm	Session V Presentations
	3:00 pm—6:00 pm	Field Trip
6:45 pm—7:30 pm	Dinner	
7:30 pm—8:30 pm	Keynote Speaker Duane DeTemple	
8:30 pm—10:30 pm	Social Hosted by Prentice Hall	
Saturday, April 13	7:00 am—8:30 am	Breakfast Buffet
	9:00 am—10:15 am	Session VI Presentations
	10:15 am—10:30 am	Beverage Break
	10:30 am—11:30 am	Session VII Presentations
	11:45 am	Checkout/Box Lunch and Departure

Friday, April 12th

Conference Rooms

Time/Room	H	G	F	B
9:00 – 10:00	(Carlea McAvoy)	(Mike Kenyon)	(Dan Schapiro)	(Louise Hoover)
	6) Will Webber	8) Donnie Hallstone et. al.	4) Frank Wilson	13) Sasha Malinsky
	On-Line Resources With Live Math	Fantastic Jurassic Growing Dinosaurs	Designing Classroom Activities/Real Life Data	Various Proofs of the Pythagorean Theorem
10:30 – 11:30	(Mike Kenyon)	(Tom Reifenrath)	(Kristine Barker)	(Yves Nievergelt)
	16) Doug Mooers	1) Stephen Lane	7) Ted Coskey	21) Marji Vittum-Jones
	On-Line Math Center At Whatcom CC	Writing Equations Using Microsoft Word	Sabbatical Program at University of Washington	Building Conics, Hands-on Collaborative Activity
1:30 – 2:30	(Doug Mooers)	(Donnie Hallstone)	(Doug Solowan)	(Marji Vittum-Jones)
	17) Carlea McAvoy	2) Joe Wilcox	25) Shana Calaway, Greg Harbaugh, David Nelson	14) Yves Nievergelt
	On-Line Developmental Math	Folk Wisdom/ Applied Problems	Learning Outcomes for 20 th Century Statistics	Presentation of Math Workshop Results
3:00 – 3:30	(Yves Nievergelt)		(Dennis Watson)	(Wes Orser)
	12) Jane Lane		9) Greg Harbaugh	5) Frank Rafie
	Creating a Culture of Collaboration Among Dev. Math Teachers		Math in the Cinema	Quantum Model of Atoms
3:45 – 4:15	(Bill Monroe)		(Tanya Rivers)	(Aaron Bingham)
	20) Kathy Maclean		15) Burl Fabianek	28) Gail Nord
	Keys to Student Success In Developmental Math		Why The Mariners Won Too Many Games	Fun With the Golden Ratio

The person in parentheses is the presider, the person in bold is the presenter. To see an abstract of the talk, look up the presenter by number on the following pages.

Saturday, April 13th

Conference Rooms

Time/Room	H	G	F	B
9:00 – 9:30	(Doug Mooers) 22) Jeff Crabill	(Tracy Nehnevaj) 18) Dave Buchthal		(Paul Casillas) 19) Cal Clawson
	Success in Developmental Math/ Computer Env.	Assessment Rubric for Science and Math		Ramanujan and the Golden Mean
9:00 – 10:00			(Louise Hoover) 23) Branko Curgus	
			Visual Integration	
9:45 – 10:15	(Burl Fabianek) 3) Tanya Rivers	(Ray Burns) 10) Mike Kenyon		(Mark Elliott) 24) Doug Solowan
	Experimental Demo Using CBL	Portfolio Assessments In Liberal Arts Math		Mathematical Musings On Musical Tuning Systems
10:30 – 11:30		(Ray Burns) 27) Laura Bracken	(Donnie Hallstone) 11) Steven Black	
		How Did My Students Ever Pass Their Last Class?	Typesetting Beautiful Scientific Documents with LaTeX	
10:30 – 11:00	(Bill Monroe) 26) David Lippman			
	Alternative Online Math Course for Liberal Arts			

The person in parentheses is the presider, the person in bold is the presenter. To see an abstract of the talk, look up the presenter by number on the following pages.

Abstracts

- 1) Presenter: **Stephen Lane**, Big Bend
President:

Title: **Writing Equations in MS Word: Enhancements and Advantages**

Abstract: Users of MS Word commonly use Equation Editor create equation for Word documents. An alternative method for entering equations (field codes) which offers numerous advantages. This presentation will show you how to use field codes to write equations and demonstrate how and when this approach is preferable to Equation Editor.

- 2) Presenter: **Joe Wilcox**, Highline
President: *Donnie Hallstone*, Green River

Title: **Applied Problems and Folk Wisdom in Adventure**

Abstract: Mostly basic concepts with a few subtle ideas. Why can't a 48-mile range radar detect a freighter in the Straits of Juan de Fuca only 20 miles away? Why don't hurricanes cross the equator? Why does the Weather Service double its winds aloft measurements when predicting winds on Mount McKinley? How can one crude observation and one accurate measurement determine if two boats are on a collision course? A selection of topics and folk wisdom from decades of adventure.

- 3) Presenter: **Tanya Rivers**
President: *Burl Fabianek*, Western Washington

Title: **Investigating Exponential Functions using the TI-83 with Motion Tensor and Temperature Probe**

Abstract: The TI-83 with CBL motion sensor and temperature probe will be used to examine the differences between linear and exponential functions and to collect data for analysis in a project dealing with the hot coffee controversy.

- 4) Presenter: **Frank Wilson**, Green River
President: *Dan Schapiro*, Yakima Valley

Title: **Making It Real: Designing Classroom Activities Based on Real-Life Data**

Abstract: Students frequently complain that there is little connection between the mathematics we teach and their everyday lives. As educators, it is our responsibility to help them make the connection. In this workshop, we will share specific classroom activities that require students to use mathematical skills to interpret relevant real life data. A compilation of data sources will be provided for attendees.

- 5) Presenter: **Frank Rafie**, Cascadia
President: *Wes Orser*, Clark College

Title: **The Quantum Model of Atoms: The Energy Levels of Atoms**

- 6) Presenter: **Dr. William T. Webber**, Whatcom
Presider: *Carlea McAvoy*, South Puget Sound

Title: Using LiveMath in the Community College Classroom

Abstract: Over the last 3 years the presenter has created an on-line library of files that can be used for classroom demonstrations, for a homework/study aid, or for a resource for mathematical projects or investigations. The files were created using the software "LiveMath Maker," but require only a browser to interact with. The library contains interactive files from all levels of the community college math curriculum, including an on-line graphing calculator. The intent of the presentation is to show how this on-line resource can be used by instructors and students alike.

- 7) Presenter: **Ted Coskey**, South Seattle
Marina Frost, Clark College
Dale Hoffman, Bellevue

Presider: *Kristine Barker*, Clark College

Title: The Community College Educator's Sabbatical Program

Abstract: The Community College Educators' Program lets CC mathematics faculty spend a sabbatical year in the UW Mathematics Department. This has been the first year of the program and we are the first participants. We'll discuss our experiences in the program, in the department, and teaching precalculus and calculus at the UW. There will be time for questions.

- 8) Presenter: **Donnie Hallstone**, Green River
Laura Moore-Mueller, Green River
Joyce Hammer, Green River

Presider: *Mike Kenyon*, Yakima Valley

Title: The Fantastic Jurassic: Growing Dinosaurs in the Math Classroom

Abstract: Students often have trouble with concepts of measurement. The "Gro-Beasts" project challenges students to measure and quantify changes in length, area, volume, mass and density using growing dinosaurs. We will demonstrate the project and how to implement it into algebra and geometry classrooms.

- 9) Presenter: **Gregg Harbaugh**, Cascadia
Presider: *Dennis Watson*, Clark College

Title: Math in the Cinema: Assessing Learning Outcomes

Abstract: Student presentations for an intermediate algebra assignment called Math_In_The_Cinema will be show-cased. The grading rubric for this assignment will be presented, along with the creation process, the benefits provided to the students, and attributes of the rubric that make it flexible enough to be used at any level of mathematics.

- 10) Presenter: **Mike Kenyon**, Yakima Valley
Presider:

Title: Portfolio Assessments in Mathematics

Abstract: Two years ago, I began using problem-solving portfolios as my main end-of-course assessment in my liberal arts math class. I will talk about the components of my portfolios, some pros and cons of using them, and how I evaluate them. Copies of my handouts, including evaluation rubrics, will be available, as will samples of student portfolios (the best examples, of course).

11) Presenter: **Steven Black**, Green River

Presenter: *Donnie Hallstone*, Green River

Title: **Typesetting Beautiful Scientific Documents with LaTeX**

Abstract: LaTeX is a state-of-the-art typesetting package and is widely regarded as the de facto standard for the publication of scientific documents. For many years, LaTeX was available only on Unix based operating systems and was not a viable option for the "average" mathematician or physicist. At long last, LaTeX has been developed for Windows and is now available as free-ware. In this presentation, I will provide a history and description of LaTeX, demonstrate its power and elegance in the typesetting of mathematics (both for publication and in the classroom), and finally, give explicit directions on how to obtain the latest and best implementations of the platform.

12) Presenter: **Jane Lane**, Cheney

Presenter: *Yves Nievergelt*, Eastern Washington University

Title: **Creating a Culture of Collaboration Among Developmental Math Teachers**

Description: Many Developmental Mathematics teachers are frustrated with the amount of time it takes for their students to learn the study and content skills necessary to be successful in mathematics. During this session, we will examine principles of creative cooperation practiced by many business managers as they motivate their employees to greater productivity. Teachers working together have greater impact in maintaining high academic standards, motivating students to study for understanding, and serving as a model in the academic community.

13) Presenter: **Sasha Malinsky**, Bellevue

Presenter: *Louise Hoover*, Clark College

Title: **$A^2 + B^2 = C^2$: How Some Have Seen It Through the Ages.**

Abstract: A number of proofs of the so-called "Pythagorean Theorem" will be presented.

Comparisons between the interpretations of the problem and subsequent proofs will be discussed.

A number of related results will also be discussed.

14) Presenter: **Yves Nievergelt**, Eastern Washington University

Presenter: *Marji Vittum-Jones*, South Seattle

Title: **Presentation of Findings from Preconference Workshop**

Abstract: Participants in Thursday's workshop on "How (Not) To solve Quadratic Equations" will present the instructional material they designed"

15) Presenter: **Burl Fabianek**, Western Washington

Presenter: *Tanya Rivers*, Western Washington

Title: **"Why the Mariners won too many games in 2001."**

Abstract: Data analysis using a TI-83 graphing calculator. A project using Major League Baseball results (1999-2001) to find a linear model that predicts the number of wins a team should expect given the number of runs a team gives up and the number of runs scored. This project is adaptable to any course using data to investigate linear functions.

16) Presenter: **Doug Mooers**, Whatcom
Presider: *Mike Kenyon*, Yakima Valley

Title: Online Resources for the Classroom: Whatcom Community College's Online Math Center

Abstract: A FREE online resource for teachers, students, and anyone interested in mathematics. Student help sites, professional organizations, current research in mathematics (worldwide), puzzles, games, applications of math to many fields. Real data at your fingertips that you can key into your calculator. Information and programs for HP, Casio, and Texas Instrument calculators. A wealth of math materials in the Library. LiveMath (registered) demonstration files in 2 and 3 dimensions available with a free plug-in download. The site was developed through a Title III grant.

17) Presenter: **Carlea McAvoy**, South Puget Sound
Presider: *Doug Mooers*, Whatcom

Title: Using Games to Review Basic Math Concepts:

Abstract: Basic math students need lots of review to cement the material in their minds. A number of games will be presented that make "review day" fun for the students. These games require the students to apply their new-found knowledge of mathematics to fun and interesting problems. Most of the games take between 5 and 15 minutes, so the students can play more than one game in a day and thus review several skills. Participants will play 4 or 5 games and share ideas.

18) Presenter: **Dave Buchthal**, Cascadia
Sharon Sexton, Cascadia
Gregg Harbaugh, Cascadia

Presider:

Title: Assessment Rubric for Science and Math: "Why Do We Do the Things We Do?"

Abstract: How do you assess your mathematics and science courses? If your students asked you what they had to do to get a good grade on a project, a take-home assignment, or a collaborative endeavor, what would you tell them? We will begin with a presentation of our working model of an assessment rubric and then follow with the sharing of participants' examples. Come prepared with your rubrics, ideas, and open mind.

19) Presenter: **Cal Clawson**, Bellevue/South Seattle
Presider: *Paul Casillas*, Clark College

Title: Ramanujan and the Golden Mean

Abstract: The Golden Mean is a constant which has intrigued and entertained both professional and amateur mathematicians for centuries. The ancient Greeks referred to it as phi and incorporated the ratio into some of their buildings. Artists have used the Golden Mean to give balance to their paintings. The Mean has been discovered in such diverse forms as the Fibonacci sequence, infinite continued fractions and infinite nested radicals.

Srinivasa Ramanujan (1887-1920) was the young self-taught mathematical genius Hardy invited to England from his native India. Ramanujan's work, contained in four notebooks, includes several thousand original theorems and identities. Was Ramanujan aware of the Golden Mean? Did he ever incorporate it into his wonderful identities? Stay tuned.

20) Presenter: **Kathy Maclean**, Clark College
Presider: *Bill Monroe*, Clark College

Title: **Reaching the Underprepared College Student**

Abstract: Are you teaching middle school math to students over 18? How do you rise to the challenge? Let's look at some strategies to help assure student success in this vital portion of our student population.

21) Presenter: **Marji Vittum-Jones**, South Seattle
Presider: *Yves Nievergelt*, Eastern Washington University

Title: **Building Conics**

Abstract: This will be a sharing of a hands-on, collaborative activity for pre-calculus students. The step-by-step process to build each of the conics on the classroom walls will be shown. The temporary addition to the décor of your room will then be measured so as to develop the algebraic equations for each. (Handouts provided.)

22) Presenter: **Jeff Crabill**, Everett
Presider: *Doug Mooers*, Whatcom

Title: **Success in Developmental Math In the Computer Mediated Environment**

Abstract: At Everett Community College, the math department began teaching a few sections of developmental mathematics in a computer-mediated environment. We began this as a pilot program for Intermediate Algebra in Spring 2000 and then added sections of Basic Mathematics. It has been two years since we began the program and we have learned a bit about developmental math students, study skills, and the importance of alternative modes of instruction from both the student and faculty points of view. This session will focus on what we have learned the last two years and where we want to go in the future.

23) Presenter: **Branko Curgus**, Western Washington
Presider:

Title: **Visual Integration**

Abstract: We will show several examples of integrals that can be evaluated using only geometric reasoning. The geometric reasoning provides a visual "proof" for the convergence of the corresponding sequences of Riemann sums.

24) Presenter: **Doug Solowan**, South Seattle
Presider: *Mark Elliott*, Clark College

Title: **Mathematical Musings on Musical Tuning Systems**

Abstract: As an very brief example of the role many technical fields play in the arts, we will look at the relationship between the way notes are tuned in musical scales and the natural harmonic series. Many choices have led to the "equal-tempered" scale currently used in Western music, even though many of the compositions we hear in recordings and live performance were originally written in differently-constructed tuning systems. There will be some very brief comparison/contrasts between several tuning systems, and I hope to be able to provide some sound examples of the impacts of some of these choices.

25) Presenter: **Gregg Harbaugh**, Cascadia
Shana Calaway, SCC
David Nelsen, Green River

Presenter: *Doug Solowan*, Seattle Community College

Title: **Learning Outcomes for the 21st Century Introductory Statistics Class, A Roundtable Discussion**

Abstract: The objective of the session is to produce a (working) list of learning outcomes appropriate for students leaving an introductory statistics class. A secondary objective would be to brainstorm how best to utilize this list across the campuses represented in the discussion. Request for the participants: Please bring any projects or assessment tools you would like to share with other instructors interested in statistics.

26) Presenter: **David Lippman**, Pierce

Presenter:

Title: **Alternative Online Course for Liberal Arts Mathematics**

Abstract: A new online Math for Liberal Arts course motivated by the COMAP text will be discussed. The talk will detail motivation for development and goals of the course, including use of higher-level math skills. Come to learn about the project and offer your suggestions.

27) Presenter: **Laura Bracken**, Lewis and Clark State College

Presenter: *Ray Burns*, Clark College

Title: **How Did My Students Ever Pass their Last Class?**

Abstract: Some developmental math students may pass a prerequisite class but do not know enough to succeed in their next class. Why? Our assessment design and criteria may be part of the reason. We'll talk about some assessment strategies that can minimize passing students that can't do much and how to use these assessments in institutional assessment programs.

28) Presenter: **Gail Nord**, Gonzaga University

Presenter: *Aaron Bingham*, Clark College

Title: **Fun With the Golden Ratio**

Conference Registration
2002 Washington State Two-Year College Mathematics Conference

College	Name	E-Mail	Comments
Bellevue CC	Akhlaghi, Tony Andersson, Linda Anderson, Marilyn Clawson, Calvin Curnutt, Larry DeVun, Esmond E. Gronlund, Susan Hoffman, Dale Laveglia, Jennifer Lee, Joyce Malinsky, Sasha Pugh, Rose L. Rucker, John Sage, Lynne Shook Caroline Stacy, David Stacy, Linda (guest) Villines, Andria	takhlagh@bcc.ctc.edu lianders@bcc.ctc.edu manderso@bcc.ctc.edu ccclawson@earthlink.net lcurnutt@bcc.ctc.edu bdevun@attbi.com sgronlun@bcc.ctc.edu dhoffman@bcc.ctc.edu jlavegli@bcc.ctc.edu jlee@bcc.ctc.edu smalinks@bcc.ctc.edu rpugh@bcc.ctc.edu jrucker@bcc.ctc.edu lsage@bcc.ctc.edu cshook@bcc.ctc.edu dstacy@bcc.ctc.edu avilline@bcc.ctc.edu	
Big Bend CC	Brown, Donna Duvall, Kathleen Farag, Sonia Hamm, Jim Hughes, Anita Jacobs, Barbara Lane, Stephen Skoor, Rinnah Whitney, Barbara	donnab@bbcc.ctc.edu kathleen@bbcc.ctc.edu no phone/e-mail jimh@bbcc.ctc.edu anitah@bbcc.ctc.edu barbaraj@bbcc.ctc.edu stephenl@bbcc.ctc.edu RinnahS@bbcc.ctc.edu barbaraw@bbcc.ctc.edu	
Clark College	Barker, Kristine Bingham, Aaron Burns, Ray Casillas, Paul Elliott, Mark Hoover, Louise Hoover, Dale (guest) Keely, Sally Keely, Mark (guest) McLean, Kathy Milner, Chris Monroe, Bill Nehnevaj, Tracy Orser, Wes Reifenrath, Tom Watson, Dennis	kbarker@clark.edu abingham@clark.edu rburns@clark.edu pcasillas@clark.edu mellriott@clark.edu lhoover@clark.edu skeely@clark.edu kmclean@clark.edu chris@vintage-books.com bmonroe@clark.edu tnehnevaj@clark.edu worser@clark.edu treifenrath@clark.edu dwatson@clark.edu	

Conference Registration
2002 Washington State Two-Year College Mathematics Conference

College	Name	E-Mail	Comments
Cascadia CC	Buchthal, Dave Harbaugh, AGregg Rafie, Frank Saxton, Sharon	dbuchthal@cascadia.ctc.edu agregg@cascadia.ctc.edu fracie@cascadia.ctc.edu ssaxton@cascadia.ctc.edu	
Centralia College	Sunflower, Elisa	sunram@localaccess.com	
Columbia Basin College	Gamon Bartrand, Meg Jindal, Manju Olson, Gary	mgamon_bartrand@cbc2.org jindam@cbc2.org olsong@cbc2.org	
Eastern Washington U	Coomes, Jacqueline R. Cross, Susan G. Lane, Jane Nievergelt, Yves	(509) 359-6743 scross@ctc.edu jlane@mail.ewu.edu ynievergelt@ewu.edu	
Edmonds CC	Francis, Jim Himes, David Leoni, Deann MacKay, Melissa	jfrancis@edcc.edu dhimes@edcc.ctc.edu dleoni@edcc.edu mmackay@edcc.edu	
Everett CC	Crabill, Jeff	jcrabill@evcc.ctc.edu	
Gonzaga University	Nord, Gail	gailnord@yahoo.com	
Green River CC	Alford, Keith Black, Steven Hallstone, Donnie Hammer, Joyce LaFlesh, Meredith LaFlesh, Tom (guest) Mitchell, Rochelle Moore-Mueller, Laura Nelson, David Oberle-Haigh, Michelle Palmer, Adrienne Reising, Pam Rock, Laura Wilson, Frank	kalford@grcc.ctc.edu sblack@grcc.ctc.edu dhallstone@grcc.ctc.edu jhammer@grcc.ctc.edu meredith@laflesh.com rmitchel@grcc.ctc.edu lmooremu@grcc.ctc.edu dnelson@grcc.ctc.edu mhaigh@grcc.ctc.edu apalmer@grcc.ctc.edu preising@grcc.ctc.edu lrock@grcc.ctc.edu (253) 833-9111	

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College	Name	E-Mail	Comments
Highline CC	Burn, Helen Hunter, Barbara Lee, Diana Lee, Michael (guest) Meerdink, Terry Morris, Ed Plagge, Richard Pratt, Dianne Scott, Erik Walton, Allan Wilcox, Joe Wilson, Dusty	hburn@hcc.ctc.edu bhunter@hcc.ctc.edu dlee@hcc.ctc.edu tmeerdin@hcc.ctc.edu emorris@hcc.ctc.edu rplagge@hcc.ctc.edu dipratt@hcc.ctc.edu escott@hcc.ctc.edu awalton@hcc.ctc.edu jwilcox@hcc.ctc.edu dwilson@hcc.ctc.edu	
Lewis-Clark State Col.	Bracken, Laura Miller, Ed	bracken@lcsc.edu edmiller@lcsc.edu	
Longview CC	Vest, Lenore	lvest@lcc.ctc.edu	
Lake Washington TC	Kuestner, Sue Ovitt, Martie	Sue.Kuestner@lwtc.ctc.edu Martie.Ovitt@lwtc.ctc.edu	
North Idaho College	Atkison, Paula Earnhart, Angela Gossett, Janet Gossett, Mike (guest) Stowe, Edwina	patkison@nic.edu angela-earnhart@nic.edu jdgosset@nic.edu erstowe@nic.edu	
North Seattle CC	Hamilton, Earl W. Li, Hon Lippert, Pam Watts, Harry L.	ehamilton@sccd.ctc.edu hli@sccd.ctc.edu plippert@sccd.ctc.edu hwatts@sccd.ctc.edu	
Seattle Central CC	Aregaye, Mimi Y. Solowan, Doug Tiu, Felice	maregaye@sccd.ctc.edu jsolow@sccd.ctc.edu feltiu@sccd.ctc.edu	
Seattle University	Ding, Shusen Ehlers, Mary Mills, Janet Sylvester, Donna Yandl, Andre	sding@seattleu.edu mehlers@seattleu.edu jemills@seattleu.edu dsylvest@seattleu.edu alyandl@seattleu.edu	

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South Puget Sound CC	Robb, Eunice	erobb@spscc.ctc.edu	
South Seattle CC	Atchison, Arlene Shatunova, Olga Terefe, Tesfaye Vittum-Jones, Marjie Vittum-Jones, Larry Zou, Jian	aatchiso@sccd.ctc.edu oshatuno@sccd.ctc.edu tterefer@sccd.ctc.edu mvjones@sccd.ctc.edu jzou@sccd.ctc.edu	
Spokane Falls CC	Glubrecht, Kialynn Hallum, Jim Nandagopal, Sreedharani Nickoloff, Nick	kialynn@sfcc.spokane.cc.wa.us jimh@sfcc.spokane.cc.wa.us sreen@sfcc.spokane.cc.wa.us (509) 533-3675	
Tacoma CC	Ferencko, Gregory Gage, Rhoda Hafer, Anne MacDonald, Scott Tran, Trung Zimmerman, Ed	gferenck@tcc.tacoma.ctc.edu rgage@tcc.ctc.edu ahafer@tcc.tacoma.ctc.edu smacdona@tcc.tacoma.ctc.edu ttran@tcc.tacoma.ctc.edu ezimmerm@tcc.tacoma.ctc.edu	
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Wenatchee Valley Col	Gardner, Anne Redmon, Angie Wiest, Sharon	agardner@wvcmail.ctc.edu aredmon@wvcmail.ctc.edu swiest@wvcmail.ctc.edu	
Western Washington U	Culley, Brandon Curgus, Branko Fabianek, Burl Rivers, Tanya Rochon, Donna Fields	fourier123@yahoo.com curgus@cc.wwu.edu burlfab@hotmail.com riverst2@cc.wwu.edu donnar@cc.wwu.edu	

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Whatcom CC	Harri, Ed Mooers, Doug Webber, William	eharri@whatcom.ctc.edu dmooers@whatcom.ctc.edu wwebber@whatcom.ctc.edu	
Yakima CC	Bakker, Vern Benson, Irv Harberts, Brinn Kenyon, Mike Lewis, Doug Lopez, George McCallum, Carolyn Mayo, Ben Meister, Martin Nelson, Richard Parnell, Beverly Roberts, Rod Schapiro, Dan Schut, Carolyn Sund, Jim Towiell, Louis Wayenberg, Bill Wolfer, Gary	(509) 697-7372 (509) 965-3788 bharberts@yvcc.cc.wa.us mkenyon@yvcc.cc.wa.us dlewis@yvcc.cc.wa.us glopez@yvcc.cc.wa.us cmccallum@yvcc.cc.wa.us bmayo@yvcc.cc.wa.us rmeister@yvcc.cc.wa.us (509) 837-5357 bparnell@yvcc.cc.wa.us (509) 882-7019 dschapiro@yvcc.cc.wa.us cschut@yvcc.cc.wa.us (509) 966-0659 (509) 453-5046 wwayenberg@yvcc.cc.wa.us gwolfer@bentonrea.com	
Unidentified Guests	Cross, Michael Wyant, Matthew	(425) 334-1713 bonmatt1@yahoo.com	

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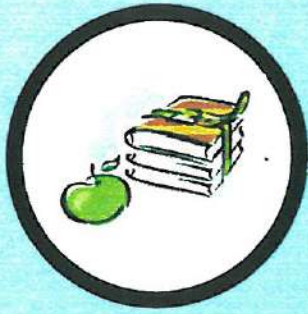
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