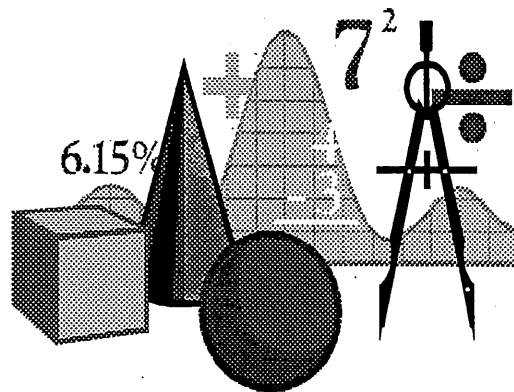


North West  
Regional  
Conference

A joint meeting of two-year colleges in  
Oregon and Washington



May 2 - 4, 1996

Skamania Lodge  
Stevenson, Washington

# NorthWest '96 Program

*"Sharing Excellence"*

Date	Time	Event	
Thursday, May 2	5:30 pm - 7:30 pm 5:30 pm - 7:30 pm	Registration Publishers' Exhibits	
	7:30 pm - 8:45 pm	Opening Speaker <i>Millie Johnson</i> <i>Western Washington University</i>	
	8:45 pm - 10:30 pm	Hosted Social	
Friday, May 3	8:45 am - 11:15 am 8:45 am - 9:45 am 8:45 am - 9:45 am 9:45 am - 10:15 am 10:15 am - 11:15 am 10:15 am - 11:15 am	Publishers' Exhibits Session 1 Workshops A and B Beverage Break Workshops A and B Session II	
	11:30 am - 1:30 pm	Lunch Keynote Speaker <i>Dr. Dale A. Lear</i> <i>Robert McNeel &amp; Associates</i>	
	1:30 pm - 4:30 pm 2:00 pm - 3:00 pm 2:00 pm - 4:30 pm 3:30 pm - 4:30 pm	Publishers' Exhibits Session III Workshops C and D Session IV	
	4:45 pm - 5:30 pm 4:45 pm - 5:30 pm	ORMATYC meeting WAMATYC meeting	
	6:00 pm - 7:30 pm	Dinner	
	8:00 pm - 11:00 pm	Tour of Columbia Gorge Interpretive Center & Hosted Social	
	Saturday, May 4	7:15 am - 8:45 am	Breakfast
		9:00 am - 11:30 am 9:00 am - 10:00 am 9:00 am - 11:30 am 10:30 am - 11:30 am	Publishers' Exhibits Session V Workshops E and F Session VI
Noon - 1:30 pm		Lunch Speaker <i>Mike Sequeira</i> <i>Central Oregon Community College</i>	

# PROGRAM HIGHLIGHTS



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Thursday

7:30 - 8:45 pm

Stevenson Ballroom A & B

Opening Speaker:

Millie Johnson

Western Washington University

Introduction:

Gary Grimes

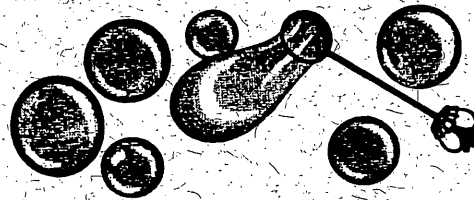
Mt. Hood Community College

Nick Nickoloff

Spokane Falls Community College

## **Mathematics: The Geometry of Soap Bubbles and Other Mathematics for the Bathtub**

Using bubble models, we will consider some famous optimization problems that lie in the field of calculus of variations. We will take an intuitive look at Steiner's Problem (concerning the minimal linear linkage between points on a planar surface) and Plateau's Problem (concerning the minimal surface that connects a given contour in space). A soap film "solution" to Bernoulli's Brachistochrone problem will be included as well.



---

Thursday

8:45 - 10:30 pm

Hood River Suite (Room 421)



### **Hosted Social**

This social is hosted by Gertrude Otzen, Peter Atwood, and Keiran Moloney of Houghton Mifflin / DC Heath Publishers

Relax with fellow conference attendees as you enjoy food and beverages.



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**Friday**

**8:45 - 11:15 am**

**Stevenson Ballroom C**

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**Presenter:**

Alice Kaseberg

Lane Community College

**Presenter:**

Sharon Coates

Portland Community College

**Workshop: Algebra Tiles: An Area Model for Developmental Algebra**

Reinforce the functions approach to developmental algebra by simultaneously presenting an area model for polynomial operations. Work in groups to explore the representation of polynomials with tiles, the zero principle, as well as addition, subtraction, and multiplication of polynomials. The model also applies to operations with positive and negative numbers, clarifies adding like terms, and provides a visual interpretation of factoring. The tiles can be a powerful tool in combination with the calculators that perform symbolic algebra.

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**Friday**

**8:45 - 11:15 am**

**Stevenson Ballroom D**

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**Presenter:**

Gary Phillips

Clark College

Bruce Ransom

Clark College

Mark Turley

Clark College

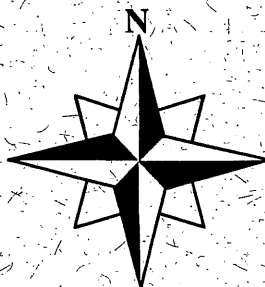
**Presenter:**

Penny Coffman

Spokane Falls Community College

**Workshop: COMPASS - A Computer Adaptive Placement and Diagnostic Test**

COMPASS is used at Clark College to determine initial math placement. COMPASS also has diagnostic capabilities that provide developmental education faculty with a powerful tool to enhance remedial learning.



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**Friday****8:45 - 9:45 am****Cascade Locks Ballroom A**

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Presenter:

Gina Shankland

Mt. Hood Community College

Sara Williams

Mt. Hood Community College

Presider:

Barb Harras

Spokane Falls Community College

### **Real-World Activities & Applications in Integrated Beginning & Intermediate Mathematics Courses**

A hands-on introduction to real-world applications and activities (based on consultation with business, industry, and other academic disciplines) will follow an interactive discussion of our philosophy and pedagogy concerning this collection of problems and activities. Participants will actively engage in solving a problem and will have an opportunity to peruse the current collection. This effort is supported by the NSF Grant Application-Based, Technology-Supported, One-Track Mathematics Curriculum.

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**Friday****8:45 - 9:45 am****Cascade Locks Ballroom B**

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Presenter:

Rob Cole

The Evergreen State College

Presider:

Jack Scrivener

Clackamas Community College

### **Modeling Environmental Applications**

Interested in a new approach to incorporating interdisciplinary applications into a math course? Mathematical modeling of environmental issues may offer a robust opportunity. A course building mathematical models of dynamic environmental systems will be described. Applications ranging from pollution flows, population processes, chemical cycles, ecosystem dynamics, and their simulation with the Stella Modeling software will be demonstrated. This approach focuses upon the "dynamic relationships" (flows) between parts of the applications, rather than on symbolic equations, and may well represent a glimpse of one aspect of the mathematics of the twenty-first century.

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**Friday****8:45 - 9:45 am****Cascade Locks Ballroom C**

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Presenter:

Jacek Kostyrko

Kenai Peninsula College

Presider:

Rudy Gunawan

Spokane Falls Community College

### **Mappings in Algebra, Precalculus, and Calculus: A Visualization and a Tool**

Functions in the form of mappings of the real number set into itself can be introduced early. In an intermediate algebra course the concept of function could be discussed prior to solving linear equations. By using arrow graphs and geometric references one can develop a suggestive visualization of functions as mappings. This visualization can be then turned into a tool for solving certain classes of equations, either algebraically or numerically (by means of iterative attractors). Mappings can also be used in discussing the following topics in precalculus and calculus: inverse functions, composition of functions, the derivative (as the scaling ratio as opposed to the slope of the tangent), the antiderivative, the definite integral and its applications, and integration by substitution.

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**Friday****8:45 - 9:45 am****Cascade Locks Ballroom D**

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**Presenter:**

Larry Runyan

Shoreline Community College

**Presenter:**

Nick Nickoloff

Spokane Falls Community College

**After Linear Regression, Then What?**

In precalculus we introduce the best fitting line and find the value of  $r$ . How do we explain these concepts without calculus or statistics? Why don't calculators give  $r$  for quadratic, cubic, or quartic regression? What is  $r$  in a log-log or semilog coordinate system? Come and find out.

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**Friday****8:45 - 9:45 am****Hood River Suite (Room 421)**

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**Facilitator:**

Jim Brady

Spokane Falls Community College

**Discussion Session: Liberal Arts Mathematics**

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**Friday****9:45 - 10:15 am****Galleria**

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**Beverage Break**

Take a break from meetings this morning and enjoy beverages provided by our exhibitors. Take time during the conference to visit the exhibits in the Conference Center Lobby.

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**Friday****10:15 - 11:15 am****Cascade Locks Ballroom A**

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**Presenter:**

John Reay

Western Washington University

**Presenter:**

Beverly Vredevelt

Spokane Falls Community College

**2-Distance Sets: What to Do on the Last Day of a Linear Algebra Course**

How many points can you draw in  $E^n$  so that the distance between any two of them is one of two fixed real numbers? When you finish teaching linear algebra it is nice to end with one or two applications. This geometry problem reviews most of the basic concepts from a sophomore-level linear algebra course.

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**Friday****10:15 - 11:15 am****Cascade Locks Ballroom B**

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**Presenters:**Shoko Brandt  
Edward ZeidmanEssex Community College  
Essex Community College**Presenter:**

Barb Harras

Spokane Falls Community College

**Algebra Reform and Graphics Calculators**

Calculus reform has led to a parallel reform movement in algebra and precalculus courses, with changes in emphasis. These include increased attention to data analysis, real-world decision making situations, topics in context, multiple representations of functions, and technology-based numerical methods. Aided by a graphics calculator and a Calculator-Based Laboratory (CBL), we will present examples of homework exercises from our reform algebra courses which highlight these recommended changes in emphasis.

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**Friday****10:15 - 11:15 am****Cascade Locks Ballroom C**

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**Presenter:**

David Goering

Eastern Washington University

**Presenter:**

Rudy Gunawan

Spokane Falls Community College

**Evolutes and Involutes**

Every plane curve  $C$  has an associated curve called the evolute of  $C$ , and a family of associated curves called the involutes of  $C$ . I will explain what these curves are and give a brief history of them. This should be of interest to anyone who teaches calculus, as the study of these curves is a rich source of material for student calculus projects.

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**Friday****10:15 - 11:15 am****Cascade Locks Ballroom D**

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**Presenter:**

Ron Larson

Pennsylvania State University

**Presenter:**

Jim Brady

Spokane Falls Community College

**Interactive Mathematics at Algebra and Precalculus Levels**

This talk will demonstrate two types of CD-ROM mathematics programs that can be integrated into elementary, intermediate, and college algebra classes, and into precalculus classes. The first type is a CD-ROM project and the second is a CD-ROM interactive text. Sample CD's will be available to participants.

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**Friday****10:15 - 11:15 am****Hood River Suite (Room 421)**

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**Facilitator:**

Franz Helfenstein

Central Oregon Community College

**Discussion Session: Technical Mathematics**

**Friday**

**11:30 am - 1:30 pm**

**Stevenson Ballroom A & B**

**Luncheon**

**Keynote Speaker:**

**Dr. Dale A. Lear**

**Robert McNeel & Associates**

**Introduction:**

**Gary Grimes**

**Mt. Hood Community College**

**Nick Nickoloff**

**Spokane Falls Community College**



**Three-Dimensional Geometric Computer Models**

Three-dimensional geometric computer models are used in the design, manufacturing, and entertainment industries. The software that creates, edits, and displays these models uses many kinds of mathematics in many different ways. The talk will give you an idea of how mathematics is used in three-dimensional geometric computer modeling and will provide you with examples that may help your students appreciate the need for mathematics.

**Friday**

**2:00 - 4:30 pm**

**Stevenson Ballroom C**

**Presenters:**

**Holli Adams**

**Portland Community College**

**Pauline Siekas**

**Portland Community College**

**Presenter:**

**Rudy Gunawan**

**Spokane Falls Community College**

**Workshop: Assessment and Student-Centered Learning In-service Training Developed through Portland Community College Title III Mathematics Project**

Participants will sample classroom student-centered learning techniques and practice a variety of student assessment and evaluation instruments.

**Friday**

**2:00 - 4:30 pm**

**Stevenson Ballroom D**

**Presenter:**

**James Dickinson**

**Clackamas Community College**

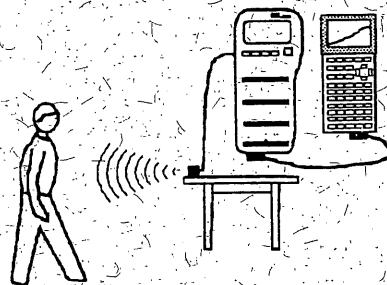
**Presenter:**

**Paul Porch**

**Mt. Hood Community College**

**Workshop: CBL: Labs for the College Classroom**

This workshop will provide hands-on use of CBL. The presenter will provide participants with labs, disks, and additional information to take back to their home campus. This will be an opportunity to try out labs and to get the experience a student in a lab will receive. Texas Instruments will provide CBLs and TI-82 calculators to use during the workshop.







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**Friday****3:30 - 4:30 pm****Cascade Locks Ballroom A**

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**Presenter:**

Jian Zou

Highline Community College

**Presenter:**

Kathy Larson

Spokane Falls Community College

**Genius and Stupidity - The Story of a Mathematician**

One of the challenges we face is how to motivate students. This presentation provides some fascinating historical facts about algebra and the mathematicians behind them that will make students more interested in mathematics. We can solve a quadratic equation by using the quadratic formula. Can we solve polynomial equations of degree three, four, five, or higher by using similar formulas? This question will be answered in the presentation.

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**Friday****3:30 - 4:30 pm****Cascade Locks Ballroom B**

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**Presenter:**

Joey McCoy

Western Washington University

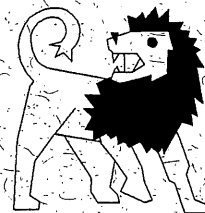
**Presenter:**

Jim Brady

Spokane Falls Community College

**Surviving in the Jungle with the TI-82**

Suppose you are an explorer lost in the jungle. Which way should you walk to find your friends? Suppose you are a lion with a TI-82. Where should you lie in wait to catch an explorer? These questions can have some startling answers which may be emphasized nicely with the TI-82.



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**Friday****3:30 - 4:30 pm****Cascade Locks Ballroom C**

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**Presenters:**

Gail Nord

Gonzaga University

John Nord

St. George's School

**Presenter:**

Nick Nickoloff

Spokane Falls Community College

**Maps and Logarithmic Spirals**

We will show the relationship between the making of maps and the logarithmic spiral. The properties of the logarithmic spiral will be discussed.

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**Friday****3:30 - 4:30 pm****Cascade Locks Ballroom D**

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**Facilitator:**

David Shellabarger

Lane Community College

**Discussion Session: Statistics**

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**Friday** **3:30 - 4:30 pm** **Hood River Suite (Room 421)**

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Facilitator: Penny Coffman  
Spokane Falls Community College

**Discussion Session: College Algebra / Precalculus**

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**Friday** **4:45 - 5:30 pm** **Cascade Locks Ballroom A & B**

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**Regional Meetings**

ORMATYC Meeting  
WAMATYC Meeting

Cascade Locks Ballroom A  
Cascade Locks Ballroom B

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**Friday** **6:00 - 7:30 pm** **Stevenson Ballroom A & B**

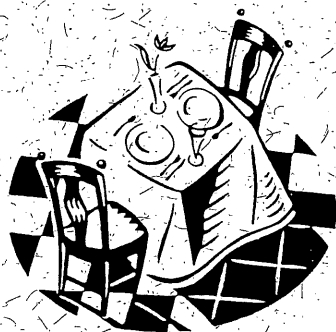
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**Dinner**

Introductions by Gary Grimes      Mt Hood Community College  
Nick Nickoloff      Spokane Falls Community College

Special Guests:

Sadie Bragg	AMATYC President-Elect Borough of Manhattan Community College City University of New York
Dick Clark	1998 AMATYC Conference Chairman Portland Community College
Ilga Ross	AMATYC Northwest Regional VP Portland Community College



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**Friday** **8:00 - 11:00 pm** **Columbia Gorge Interpretive Center**

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**Tour of the Columbia Gorge Interpretive Center and  
Hosted Social**

Ticket Required or \$5.00 Admission to the Interpretive Center

This social is hosted by:

Tamy Stenquist of Jones and Bartlett Publishers and  
Hester Winn of Wadsworth / ITP Publishers



Natural resources play a vital part in the economy and ecology of the Columbia River Gorge. The Columbia River Gorge Interpretive Center is devoted to providing the visitor with a close-up look of the history and future of this magnificent gorge.

Come enjoy an evening of camaraderie complete with delicious desserts, hors d'oeuvres, beverages, and a tour of the Interpretive Center.

Please note that the Interpretive Center has a policy that food must remain out of the exhibit areas.

Opening Session - Thursday, 7:30 - 8:45 pm

Stevenson Ballroom A & B

Millie Johnson

Western Washington University

Session	Hood River Suite (Room 421)	Cascade Locks Ballroom A	Cascade Locks Ballroom B
I Friday 8:45 - 9:45	<i>Liberal Arts Mathematics Discussion Group</i>  Facilitator: Jim Brady Spokane Falls CC	<i>Real-World Activities and Applications in Integrated Beginning and Intermediate Mathematics</i>  Gina Shankland Sara Williams Mt Hood CC	<i>Modeling Environmental Applications</i>  Rob Cole The Evergreen State College
II Friday 10:15 - 11:15	<i>Technical Mathematics Discussion Group</i>  Facilitator: Franz Helfenstein Central OR CC	<i>Linear Algebra 2-Distance Sets: What to Do on the Last Day of a Linear Algebra Course</i>  John Reay Western WA Univ	<i>Algebra Reform and Graphic Calculators</i>  Shoko Brant Edward Zeldman Essex CC Baltimore, MD
III Friday 2:00 - 3:00	<i>Beginning and Intermediate Algebra Discussion Group</i>  Facilitator: Gary Glaze Eastern WA Univ	<i>Portfolios - What Works for Me Followed by Discussion of What Works for You</i>  Penny Deggelman Lane CC	<i>Mathematics for Elementary Education Discussion Group</i>  Facilitator: Kurt Lewandowski Clackamas CC
IV Friday 3:30 - 4:30	<i>College Algebra Precalculus Discussion Group</i>  Facilitator: Penny Coffman Spokane Falls CC	<i>Genius and Stupidity - The Story of a Mathematician</i>  <i>Use of historical facts to motivate students</i>  Jian Zou Highline CC	<i>Surviving in the Jungle with the TI-82</i>  Joey McCoy Western WA Univ
V Saturday 9:00 - 10:00		<i>Presentations from the NSF Workshop on the Geometry of Multivariable Calculus</i>  Yves Nievergelt Eastern WA Univ	<i>Ancient Siege Weapons A Hands-on Activity</i>  Franz Helfenstein Central OR CC
VI Saturday 10:30 - 11:30		<i>Calculus Discussion Group</i>  Facilitator: Scott Perry Portland CC	<i>Interactive Mathematics III at Mt Hood CC - A Reform Project at the Intermediate Algebra Level</i>  Cathy Curtis Penny Slingerland Alison Warr Mt Hood CC

Cascade Locks Ballroom C	Cascade Locks Ballroom D	Stevenson Ballroom C	Stevenson Ballroom D
<p><i>Mappings in Algebra, Precalculus and Calculus - A Visualization &amp; a Tool</i></p> <p>Jacek Kostyrko Kenai Peninsula College Kenai, Alaska</p>	<p><i>After Linear Regression, Then What?</i></p> <p>Larry Runyan Shoreline CC</p>	<p><b>WorkShop (A)</b> \$4 Ticket Required</p> <p><i>Algebra Tiles: An Area Model for Developmental Algebra</i></p>	<p><b>WorkShop (B)</b> Ticket Required (No-Fee)</p> <p>COMPASS A Computer Adaptive Placement Test</p>
<p><i>Evolutes and Involutes: A Study of the Family of Curves Associated With Any Plane Curve</i></p> <p>David Goering Eastern WA Univ</p>	<p><i>Interactive Mathematics at Algebra and Precalculus Levels</i></p> <p>Ron Larson Pennsylvania State Univ</p>	<p><i>Explore an area model for 'polynomial operations'</i></p> <p>Alice Kaseberg Lane CC</p>	<p><i>This test is used to determine math placement and to enhance remedial learning</i></p> <p>Gary Phillips Bruce Ransom Mark Turley Clark College</p>
<p><i>Current Calculator Use in the Advanced Placement Calculus Program</i></p> <p>Ben Cornelius OR Institute of Technology</p>	<p><i>From Tic-Tac-Toe to ... Starting with the winning strategy of tic-tac-toe to deeper questions of probability and statistics</i></p> <p>Qing Zhang Clark College</p>	<p><b>WorkShop (C)</b> \$4 Ticket Required</p> <p><i>Assessment and Student-Centered Learning</i></p>	<p><b>WorkShop (D)</b> \$4 Ticket Required</p> <p><i>CBL: Labs for the College Classroom</i></p>
<p><i>The Relationship Between the Making of Maps and Logarithmic Spirals</i></p> <p>Gail Nord John Nord Gonzaga Univ</p>	<p><b>Statistics Discussion Group</b></p> <p>Facilitator: David Shellabarger Lane CC</p>	<p><i>In-service training developed through PCC Title III Mathematics Project</i></p> <p>Holli Adams Pauline Siekas Portland CC</p>	<p><i>Hands-on use of CBL. The presenter will provide labs and disks to use in the classroom</i></p> <p>James Dickinson Clackamas CC</p>
<p><i>Medical Applications of Systems of Linear Equations</i></p> <p>David Jabon Eastern WA Univ</p>	<p><i>Using the TI-82 in Statistics</i></p> <p>Randolph J. Taylor AMATYC West VP Las Positas College Livermore, CA</p>	<p><b>WorkShop (E)</b> \$4 Ticket Required</p> <p><i>A Hands-on Workshop on the TI-92 in the Context of Statistics, Precalculus, Calculus, and Beyond</i></p>	<p><b>WorkShop (F)</b> \$4 Ticket Required</p> <p><i>Setting the Stage</i></p>
<p><i>Title III Math Reform at Portland Community College</i></p> <p>Panel Discussion Moderator: Ilga Röss Portland CC</p>	<p><i>The Exponential Function and Doubling Time</i></p> <p>Jill McKenney Lane CC</p>	<p>Eric Schulz Walla Walla CC</p>	<p><i>Interactive presentation of Chemeketa's "reformed" college algebra course using a traditional text</i></p> <p>Bob Chesley Phyllis Leonard Marveen McCready Chemeketa CC</p>



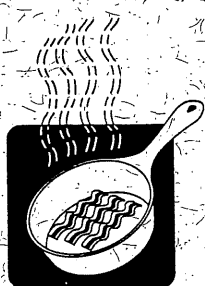
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**Saturday**

**7:45 - 8:45 am**

**Stevenson Ballroom A & B**

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**Breakfast**

Get your morning off to a good start by enjoying a full breakfast buffet.

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**Saturday**

**9:00 - 11:30 am**

**Stevenson Ballroom C**

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**Presenter:**

**Eric Schulz**

Walla Walla Community College

**Presenter:**

**Barb Harras**

Spokane Falls Community College

**Workshop: A Hands-on Workshop on the TI-92 in the Context of Statistics, Precalculus, Calculus, and Beyond**

The workshop will be a hands-on introduction to the new TI-92 calculator. Course-specific examples from precalculus, calculus, statistics, and linear algebra will be used to illustrate the new capabilities of the TI-92 including, but not limited to, the built-in symbolic algebra system, interactive geometry system, table editor, and the clipboard/editing features. Texas Instruments will be providing a calculator for each participant to use during the workshop.

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**Saturday**

**9:00 - 11:30 am**

**Stevenson Ballroom D**

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**Presenters:**

**Bob Chesley**

Chemeketa Community College

**Phyllis Leonard**

Chemeketa Community College

**Marveen McCready**

Chemeketa Community College

**Presenter:**

**Jacque Arellano**

Clackamas Community College

**Workshop: Setting the Stage**

The workshop will be an interactive presentation of Chemeketa Community College's "reformed" college algebra course, designed to support the "Rule of Four" with a traditional text. Team-designed student materials used in this workshop will be given to participants. "Reformed" refers to group classroom activities, graphing calculator requirement, and interactive classroom presentations using the modes of graphical, symbolic, tabular, and verbal representations of concepts.

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**Saturday**                                      **9:00 - 10:00 am**                                      **Cascade Locks Ballroom A**

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**Presenter:**                                      Yves Nievergelt                                      Eastern Washington University  
**Presider:**                                      Jim Brady                                      Spokane Falls Community College

**The Geometry of Multivariable Calculus**

On Thursday, May 2, 1996, I will conduct a workshop supported by NSF at the conference's location. The participants in that workshop will be encouraged and invited to present their material in this presentation session. The subject will be "The Geometry of Multivariable Calculus" and may include applications to industry that are suitable for calculus.

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**Saturday**                                      **9:00 - 10:00 am**                                      **Cascade Locks Ballroom B**

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**Presenter:**                                      Franz Helfenstein                                      Central Oregon Community College  
**Presider:**                                      Alice Hayden                                      Clackamas Community College

**Ancient Siege Weapons - A Hands-on Activity**

Analyzing the ancient siege weapons makes for wonderful hands-on activities. In this session we will take a close look at the catapult. Our activity emphasizes communication skills, model building, data collection, physics, calculus, model verification and more.

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**Saturday**                                      **9:00 - 10:00 am**                                      **Cascade Locks Ballroom C**

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**Presenter:**                                      David Jabon                                      Eastern Washington University  
**Presider:**                                      Nick Nickoloff                                      Spokane Falls Community College

**Medical Applications of Systems of Linear Equations**

This talk describes an application of mathematics that can be used in a college algebra, precalculus, or finite mathematics course; the mathematics underlying CAT scans and similar medical imaging technology. Students will learn how CAT scans work and how imaging is reduced to the solution of linear equations. This topic allows teachers to bring a very significant application of mathematics to contemporary life to their classrooms.

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**Saturday**                                      **9:00 - 10:00 am**                                      **Cascade Locks Ballroom D**

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**Presenter:**                                      Randolph J. Taylor                                      Las Positas College  
**Presider:**                                      David Shellabarger                                      Lane Community College

**Using the TI-82 in Statistics**

This presentation will provide instruction on how to use and integrate the TI-82 graphing calculator into an elementary statistics course. The speaker will demonstrate ways the calculator can promote student learning. Topics discussed will include means and standard deviations, the binomial distribution, the normal distribution, and linear regression. Attendees will receive usable techniques they can take back to the classroom. Bring a TI-82 calculator.





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**Saturday**

**11:30 - Noon**

**Front Desk**

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**Skamania Lodge Check Out**

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**Saturday**

**Noon - 1:30 pm**

**Stevenson Ballroom A & B**

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**Luncheon**

**Speaker:**

**Mike Sequeira**

**Central Oregon Community College**

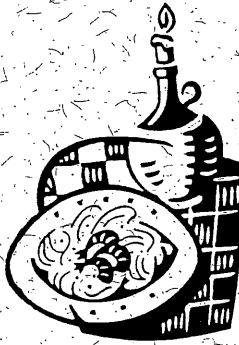
**Introduction:**

**Gary Grimes**

**Mt. Hood Community College**

**Nick Nickoloff**

**Spokane Falls Community College**



**Communicating Mathematics**

The dilemma of the mathematics teacher: I know you believe you understand what you think I said, but I am not sure you realize that what you think you heard is not exactly what I meant.

\*\*\*\*\*

**Closing Remarks:**

**Gary Grimes**

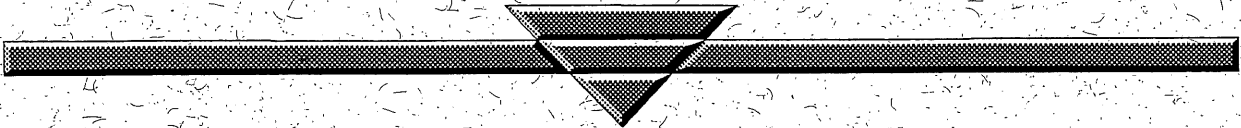
**Mt. Hood Community College**

**Nick Nickoloff**

**Spokane Falls Community College**

**Announcement of job openings**

**Future conferences**

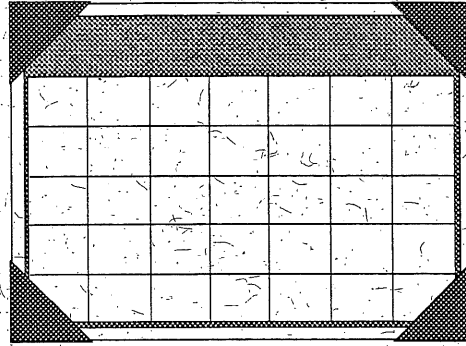


**Thank you for attending the conference.**

**We hope you enjoyed it!**

**Have a safe drive home**

# Mark Your Calendar!!



**November 14-17, 1996:** The annual AMATYC Conference will be held in Long Beach, CA at the ITT Sheraton Hotel. For information on this conference, write to AMATYC, State Technical Institute at Memphis, 5983 Macon Cove, Memphis, TN 38134.

**April 24-26, 1997:** The annual Washington State Community Colleges Mathematics Conference will be hosted by Green River Community College and will be held at Campbell's Resort in Chelan.

**May 2-3, 1997:** The annual ORMATYC Conference will be held at the Hotel Newport in Newport, Oregon.

**November 2-8, 1998:** ORMATYC will be the host of the annual AMATYC conference which will be held in Portland, Oregon. Dick Clark, Portland Community College, is the General Chairman of the conference. Many volunteers are needed to make the 1998 conference the best ever. If you have not already done so, let Dick know that you are willing to help.

# 1996 Exhibitors

## Addison-Wesley

✧ Peter Harris

## Harper Collins

✧ Christine White

## Houghton Mifflin / DC Heath

✧ Gertrud Otzen

## Irwin

✧ Bruce Powell

## John Wiley & Sons

✧ Don Murphy

## Jones and Bartlett

✧ Tamy Stenquist

## McGraw-Hill

✧ Susanna Tyagi

## Prentice Hall

✧ David Warner

## Quant Systems

✧ Anita Glipsin

## Saunders

✧ Dan Sweet

## Texas Instruments

✧ Heather Fredin

## Wadsworth / ITP

✧ Hester Winn / Carla Lennox

## West Publishing

✧ Tracy Stuart

# Conference Committee

## Conference Co-Chairs

Gary Grimes  
Nick Nickoloff

Mt. Hood CC  
Spokane Falls CC

## Registration / Finance

Kialynn Glubrecht  
Dorette Long

Spokane Falls CC  
Rogue CC

## Program

Jim Brady  
Kathy Taylor

Spokane Falls CC  
Clackamas CC

## Promotion

Rudy Gunawan  
Lily O'Rielly

Spokane Falls CC  
Portland CC

## Facilities

Penny Coffman  
Gary Grimes

Spokane Falls CC  
Mt. Hood CC

## Exhibitors

Frank Goulard

Portland CC

## Program Booklet

Brenda Herman

Clackamas CC

## Washington State Community Colleges Mathematics Conference

The first Washington State Community Colleges Mathematics Conference and Retreat was held in 1969. The organizers were Phil Heft, Jim Relf, Larry Larson, and John Van Duff. We are told that the per person cost at the time was \$16.68 and that 33 people attended the conference. It was held at "The Lodge" at Ashford where accommodations required "sleeping bags". The menu for the first banquet as well as the name of the first "guest speaker" remain unsolved mysteries.

<u>Year</u>	<u>Conference Host Schools</u>	<u>Location of Conference</u>
1969	Green River Community College	The Lodge
1970	Spokane Falls Community College	The Lodge
1971	Everett Community College	Snoqualmie Pass
1972	Everett Community College	Snoqualmie Pass
1973	Seattle Central Community College	Snoqualmie Pass
1974	Shoreline Community College	Lake Wilderness
1975	Highline Community College	Providence Heights
1976	Bellevue Community College	Snoqualmie Pass
1977	Shoreline Community College	Providence Heights
1978	Edmonds Community College	Providence Heights
1979	Olympic College	Port Ludlow
1980	Spokane Falls Community College	Sun Mountain
1981	Spokane Falls Community College	Sun Mountain
1982	Highline Community College	Lake Chelan
1983	Olympic College	Port Ludlow
1984	Green River Community College	Alderbrook
1985	Shoreline Community College	Sun Mountain
1986	North Seattle Community College	Alderbrook
1987	Lower Columbia Community College	Alderbrook
1988	Olympic College	Port Ludlow
1989	Bellevue Community College	Lake Chelan
1990	Clark College	Alderbrook
1991	Pierce College and Tacoma Community College	Lake Chelan
1992	Yakima Community College	Yakima
1993	Highline Community College	Wenatchee
1994	South Seattle Community College	Silverdale
1995	Skagit Valley and Whatcom Community Colleges	Wenatchee
1996	Spokane Falls Community College and ORMATYC	Skamania Lodge
1997	Green River Community College	Campbell's Resort in Chelan

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## Washington Mathematical Association of Two-Year Colleges

The Washington Mathematical Association of Two-Year Colleges (WAMATYC) was formed in Yakima in 1985-86. The past and current presidents are Barbara Poole (1986-88), Chuck Ainsley (1988-90), Phil Heft (1990-92), Mike Greenwood (1992-94), and Paul Casillas (1994-1996).

WAMATYC meetings are held during the Washington Community College Mathematics Conference in the spring of each year.

The organization recognizes the Washington college which places highest each year in the AMATYC Student Mathematics League Contest with \$50 for student awards. WAMATYC publishes a math directory which lists the faculty and the textbooks used at each community college in the state.

## Oregon Mathematical Association of Two-Year Colleges

The Oregon Mathematical Association of Two-Year Colleges (ORMATYC) is a non-profit education association and an affiliate of the American Mathematical Association of Two-Year Colleges (AMATYC). Its purposes are to

- ✿ encourage the development of effective mathematics programs.
- ✿ afford a state forum for interchange of ideas.
- ✿ further develop and improve the mathematics education and the mathematics-related experience of students in two-year colleges.
- ✿ promote the professional welfare and development of its members.
- ✿ afford a forum for input at the state level concerning mathematics education.

The organization was unofficially formed in the fall of 1986 at the impetus of James Streeter of Clackamas Community College. The first conference was held at the Inn at Spanish Head in May, 1987. At the business meeting there, the constitution was presented, revised, and adopted. Arrangements were made for the nomination and election of officers and thus ORMATYC was official. Since then ORMATYC has sponsored 8 more spring conferences. The fall of 1991 saw the first newsletter for the organization published by Mike Sequeira of Central Oregon Community College. The newsletter is currently published three times a year. This year ORMATYC joins the two-year colleges in the state of Washington to sponsor a joint conference at Skamania Lodge in Stevenson, Washington.

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### *ORMATYC Presidents*

James Streeter	1987-1988	Dick Holliday	1992-1993
Roger Judd	1988-1989	Gary Grimes	1993-1994
Mary Ellen White	1989-1990	Wally Waldman	1994-1995
Dorothy Beaufait	1990-1991	Tom Reimer	1995-1996
Dick Clark	1991-1992	Don Hutchison	1996-

\*\*\*\*\*

### *ORMATYC Executive Board*

<i>Past-President</i>	Wally Waldman	Blue Mt CC
<i>President</i>	Tom Reimer	Lane CC
<i>President-Elect</i>	Don Hutchison	Clackamas CC
<i>Secretary</i>	Alice Hayden	Clackamas CC
<i>Treasurer</i>	Dorette Long	Rogue CC

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### *ORMATYC Special Assignments*

<i>Historian</i>	Alice Hayden	Clackamas CC
<i>Newsletter Editor</i>	Mike Sequeira	Central OR CC
<i>Photographer</i>	Jim Rogers	Portland CC

# NOTES



# NOTES



Conference  
Center  
Lobby

Terrace

Patio

Gallery

Galleria

Courtyard

Conference  
Services

Storage

Stevenson  
Ballroom

A

B

C

A

B

Cascade  
Locks  
Ballroom

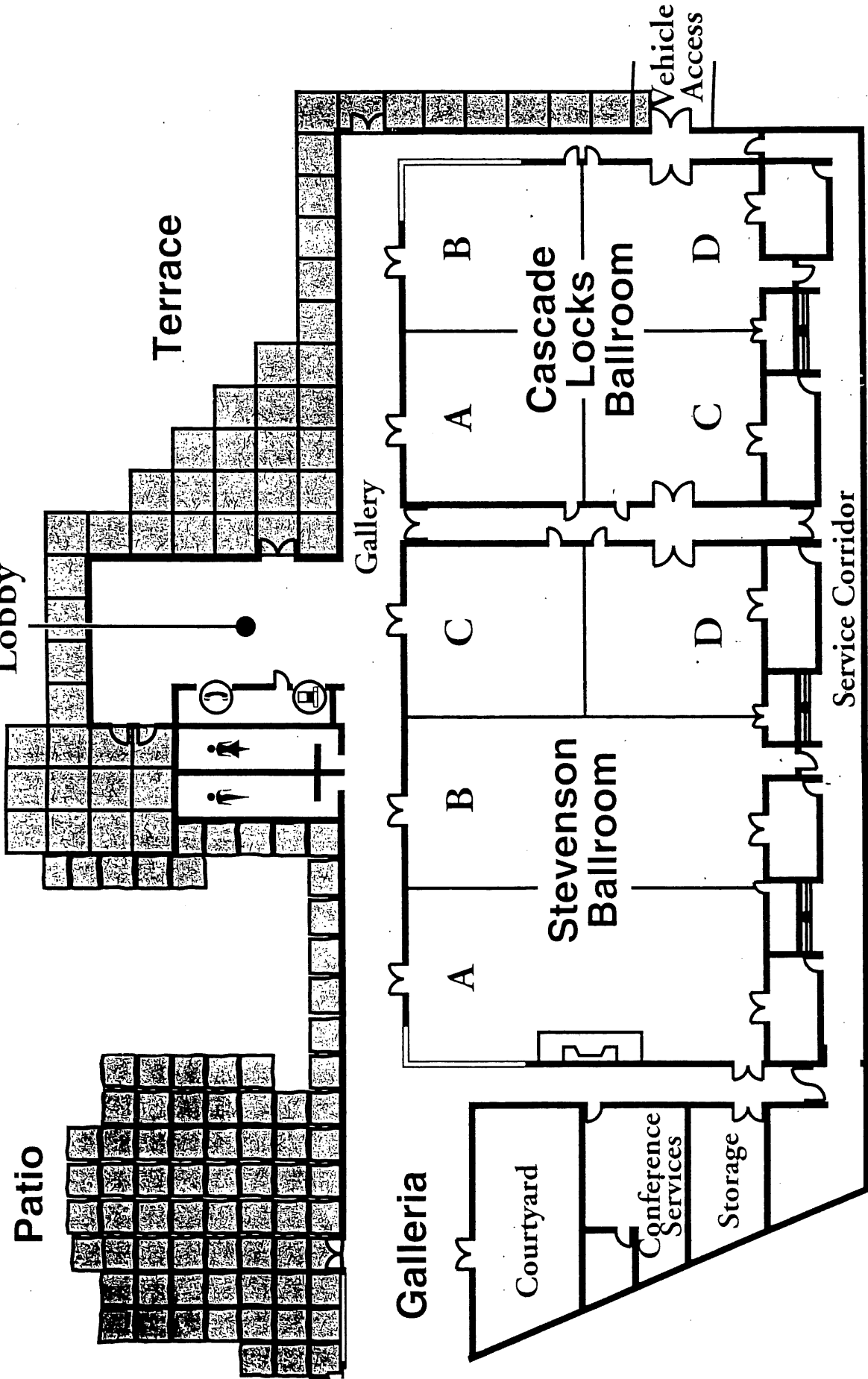
D

C

D

Service Corridor

Vehicle  
Access





Bates Technical College

Sullivan, Emily

Bellevue

Crain, Charlotte

Curnutt, Larry

Habib, Berthe

Hoffman, Dale

Laveglia, Jennifer

Malinsky, Sasha

Pugh, Rose

Rucker, John

Clark

Barker, Kristine

Bingham, Aaron

Casillas, Paul

Elliott, Mark

Greenwood, Mike

Hoover, Dale (guest)

Hoover, Louise

Jackson, Adam

Monroe, Bill

Nehnevaj, Tracy

Orser, Wes

Ransom, Bruce

Reifenrath, Tom

Watsom, Dennis

Yates, Kayoko

Zhang, Qing

Columbia Basin

Brands, Michael

Meier, Paul

Olson, Gary

Eastern Washington University

Cripe, Greg

Glaze, Gary

Goering, David

Nievergelt, Yves

Peterson, Sonja (guest)

Wellman, Susan

Edmonds

Chalif, David

Francis, Jim

Gup, Jeremy

Mackay, Melissa

Maly, Barbara

Weyant, Jadwiga

Everett

Jones, Chuck

Weiss-Green, Heidi

Gonzaga University

Nord, Gail

Grays Harbor

Dutro, Trish

Hyatt, Gwen

Parker, Gary

Siedenstrang, Lynn

Green River

Alford, Keith

Glover, Sally

Guilliland, Christie

Hammer, Joyce

Kinholt, Stephan

Larson, Larry

Moore-Mueller, Laura

Highline

Hunter, Barbara

Lyman, Heidi

Morris, Ed

Wilcox, Joe

Zou, Jian

Highline, Pierce

Ginsberg, Benjamin

Lake Washington Technical College

Buck, Sharon

Kuestner, Sue

Ovitt, Martie

Lockheed Martin Sunnyvale, CA

Horn, Walter

South Seattle

Vittum-Jones, Marjie

Spokane

Hammond, Mary Lou

Johnson, Chris

Dimick, Susan

Spokane Falls

Brady, James

Brady, Patricia (guest)

Coffman, Penny

Duvernay, Nicole

Glubrecht, Kialynn

Gunawan, LuAnne (guest)

Gunawan, Rudy

Hallam, Jim

Harras, Barbara

Humphrey, Bette (guest)

Humphrey, Curt

Larson, Kathy

McGregor, Robert

Neises, Lars

Nickoloff, Nick

Vredevelt, Beverly

Winkler, Ann

Tacoma

Clark, Karen

Flodin, Mike

Gage, Rhoda

Hafer, Anne

Price, Barb

Tran, Trung

University of Alaska Southeast Ketchikan, AK

Siemon, Nancy

University of Colorado

Munro, Matt

University of Washington

Burton, Cindy graduate student

Collingwood, David

Harris, Julie graduate student

Martin, Linda graduate student

Morehead, Paul graduate student

Smith, Brent graduate student

Warfield, Ginger

Walla Walla

Huntington, Joyce

Owsley, Gary

Schulz, Eric

Wenatchee Valley

Booth, Garrick

Gardner, Anne

## Lower Columbia

Flakus, Carol  
 Flakus, Greg (guest)  
 McGlothin, James  
 Vest, Lenore

## North Idaho College

Adams, Judy  
 Stowe, Edwina

## North Island College Courtenay, BC

Simice, Slava

## North Seattle

Brannan, Denise  
 Dyer, Barbara  
 Hamilton, Earl  
 Hayasaka, Machiko  
 Himes, Dave  
 Lippert, Pam  
 Ringen, Vicky  
 Tighe, Robert

## Olympic

Brackebusch, Ann  
 Brougher, Janet  
 Dodge, Mike  
 Haines, Martin  
 James, Glenlee (guest)  
 Maki, Loe  
 Marler, Larry  
 Mauney, Allen  
 Niven, Scott  
 Sicks, Dave  
 Zaerpoor, Farzaneh

## Peninsula

Brauninger, Kent  
 Brauninger, Rosemary (guest)  
 Lindberg, Marjorie  
 Norris, Susan

## Pierce

Downie, Diane  
 Lamka, Christine  
 Lamka, Michael  
 O'Donovan, Barbara

## Robert McNeel and Associates Seattle, WA

Lear, Dale (keynote seaker)

## Saint George Academy Spokane, WA

Bowen, Jori

## Seattle Central

Benson, Dick  
 LaCoste, John  
 Morales, Lawrence  
 Ray, Janet  
 Wilkinson, Margaret

## Seattle University

Ehlers, Mary  
 Mills, Janet  
 Yandl, André

## Shoreline

Hancock, Helen  
 Hawkins, Betty  
 Runyan, Larry  
 Sanderman, Judy  
 Weaver, Matthew

## Skag Bell, Traci

Frost, Marina  
 Green, Phil  
 Huffman, Richard  
 Schaffner, Joventina  
 Stevens, Chuck

## South Puget Sound

Ganns, Richard  
 Robb, Eunice  
 Ryan, Sylvia  
 Schaps, Kayana  
 Villasana, Cesar

Northwest '96: Sharing Excellence  
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	Dave Himes	dhirnes@saacc.secd.ctc.edu	Donna Rochor donnar@henson.cc.wvu.edu
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	Earl Hamilton	earh@saacc.secd.ctc.edu	Millie Johnson millie@henson.cc.wvu.edu
	Pam Lipert	plipert@saacc.secd.ctc.edu	Rochelle Mitchell rm449931@henson.cc.wvu.edu
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North Island College	Vicky Ringen	vmringen@saacc.secd.ctc.edu	Whitman



## Skamania Lodge

In The Columbia River Gorge

### HOW THE SKAMANIA LODGE CAME INTO BEING

*49 lodg  
5 bio memo*

**QUESTION: What got the idea of a lodge and conference center going in Stevenson, near the Bridge of the Gods?**

**ANSWER:** In 1986 Congress passed legislation that created the Columbia River Gorge National Scenic Area. This scenic area was created to protect natural, scenic and cultural resources and to stimulate the economy of the gorge region.

In the Scenic Area Act of 1986, the legislation authorized \$5 million to be appropriated for the construction of a conference center to be located in the State of Washington. The overall mission for the Washington side of the gorge was that a "single, full-service, multi-purpose, self-contained meeting center with flexible facilities" be designed and built. It was within this "mission statement" that Salishan Lodge, Inc. and Skamania County met the challenge and were awarded the project.

**QUESTION: Who were the main players and what did each do?**

**ANSWER:** There are four primary parties involved:

**The Columbia River Gorge Commission** conducted a market study to determine the demand for a conference center on the Washington side, developed specific criteria, and issued Request for Proposals in the fall of 1989. Of the eight proposals received, two were requested to make detailed presentations in June 1990. A tie vote resulted in an independent selection committee review. On September 25, 1990, the Commission voted in favor of the Skamania County and Salishan Lodge plan. The Commission continued to refine the Management Plan for the Scenic Area and published its final version in early 1992.

**The USDA Forest Service** worked to provide a viable, ongoing presence in Skamania Lodge through approval of the concept, the space design and the development of interpretive materials and programs. The USDA Forest Service will be a permanent presence in Skamania Lodge and will provide information and interpretive services to guests seven days a week.

**Skamania County**, through their Board of Commissioners, recruited Salishan Lodge in early 1990 to be their development partner. Working together, the county and Salishan Lodge developed the final presentation for the Columbia River Gorge Commission and US Forest Service. The county owned the property and entered into a long-term lease agreement with Salishan Lodge, Inc. Skamania County made a \$5 million commitment to the lodge project. When it became evident that the federal money would not be appropriated soon enough to enable construction to begin, the county committed an additional \$5 million toward equity in the lodge. This enabled the project to start on time. In late December 1992, the County passed land use ordinances and forwarded them to the Gorge Commission for their review. At this time, the County and the Gorge Commission are working toward revision of the ordinances.

**Salishan Lodge**, working with its associate, Grayco Resources, Inc., managed and developed the entire project. The day after the award, September 26, 1990, began a major Environmental Impact Statement as well as detailed architectural and engineering studies so actual construction could start in the summer of 1991. The opening would be in early spring of 1993. In this endeavor we used the talents of over a dozen professional consultants, received approvals from over 40 public agencies (city, county, state and federal) and started site preparation work July 16, 1991 about 10 months after the Gorge Commission gave their approval.

Salishan Lodge arranged equity investment and construction loans from private sources totaling approximately \$15.5 million; the total project is a public-private investment of \$25.5 million. Salishan is totally responsible to the County for repayment of the county's investment. Concurrent with project construction, recruitment of key personnel began in early 1991 and into 1992. In January and February of 1993 recruitment and training of about 150 employees took place. On February 26, 1993 Skamania Lodge opened as planned and hosted the first conference group.

**QUESTION: Why this public-private partnership?**

**ANSWER:** When Congress passed the Scenic Area Act, it mandated that a conference center be built on the Washington side

of the gorge, involving a public-private partnership. Skamania County owned 175 acres of land and desired to have it used as an economic spark for the area. Salishan Lodge thought the idea of regional economic stimulus was good and had successful experience in the resort/conference business. They decided to take the financial risk, coupled with the anticipated Federal grant of \$5 million dollars that was authorized in the 1986 legislation. This made the undertaking economically feasible. Thus, Skamania County, Salishan Lodge, Inc. and the Federal government entered into a unique three way partnership.

**QUESTION: What are the economic benefits that are expected to flow to the public agencies?**

**ANSWER:** Over a ten year period, the resort and conference center expect to generate approximately 235 jobs with an annual payroll of over \$3.9 million. Over the first ten years of operation, Skamania Lodge will generate over \$11 million in direct tax revenue: \$7.9 million in Washington State sales tax, \$1.5 million in sales and room tax revenue for the City of Stevenson, \$.7 million in property taxes for Skamania county and \$1 million in sales tax from project construction. The city, county and state governments will receive well over \$1 million a year in actual cash tax payments. This is a high public return on \$5 million. This return continues as long as the lodge operates. There is no on-going Federal costs after the appropriation of the promised grant money. The \$5 million Federal grant is yet to be appropriated although it was authorized in 1986.

**QUESTION: Really now, what is Skamania Lodge?**

**ANSWER:** We like to say it is a destination resort and conference center in a mountainous-river-gorge setting only 45 minutes from Portland, Oregon. We have 195 attractive guest rooms with all the essential support facilities. We are a state-of-the-art conference and meeting center, separate but connected to the guest room lodge and designed to make meetings a pleasure. We are a recreational center with a fitness center and swimming pool, a 18-hole scenic golf course with an excellent practice area, a tennis court and 4 miles of separate walking trails on the property.

**QUESTION: What design principles were paramount in planning the project?**

**ANSWER:** Because of the unique public-private partnership and an unproven location, we wanted an affordable lodge that people would enjoy coming to for relaxation, recreation and learning. We had to be efficient to operate, yet still have many warm and appealing features for guests. We chose to make it reminiscent of the old-time lodges of early 1900's which had charm and appeal. Thus, a four-story, high pitched roof, Cascadian-style lodge was constructed. We wanted interesting uses of timbers, with wood paneling and native stone. We strove for use of wrought black iron and comfortable furnishings that might remind you of by-gone days. We wanted pleasant visual experiences as you walked through the public spaces and into the Conference Center. We desired to use arts and craft products that were mainly created locally.

**QUESTION: OK, now give us some specific examples of these design principles?**

**ANSWER:** Some of the large timber columns in the Gorge Room are 100 years old. They came from a BumbleBee cannery in Astoria, Oregon that was being dismantled. The architects and designers wanted to incorporate large timbers that looked rustic. The recycled timbers fit the need. They extend above the Gorge Room into the Hood River Suite which is on the fourth floor.

The floor is Southern Longleaf Pine which is also recycled from a 150-200 year old building in Georgia. It was selected because it provided wide boards instead of the typical residential width wood flooring. It is a hard wood suitable for heavy use.

The lobby floor is a Montana slate. This particular slate was chosen for the color which compliments the rock of the fireplace.

The lobby and Gorge room surround an 85 foot tall fireplace. This fireplace was made with andesite rock, excavated from an abandoned quarry a few miles from the site. The estimated weight of this fireplace is 500,000 pounds.

You'll note the wood wainscot paneling in all of the guest corridors and the main floor-again a flash back to the early 1900's. In the rooms you'll observe fabric draperies at the closet openings to remind you of older lodges. Near the guest room doors you see a room number design that went through many variations before we settled on the wood and metal concept.

**QUESTION: How about the window drapes and bed spreads?**

**ANSWER:** Pendleton Woolen Mills designed and made this fabric for us. The fabric is a wool/cotton blend of original design for Skamania Lodge.

**QUESTION: Who made the furniture we see in rooms and lobbies?**

**ANSWER:** The furniture in the guest rooms is by Thurston, a family owned commercial furniture manufacturing company located in Grass Valley, California. The Mission/Lodge style furniture was not a standard product for Thurston, but a customized design to fit the Skamania Lodge theme. The Gorge Room settee, love seat and tables, the library chairs and tables, the lounge settee and tables, and the lounge chairs in each guest room were all produced by Walt Heck, a craftsman located in NE Portland. The lounge chair was an original Walt Heck design. Other pieces made by Mr. Heck were designed by Ankrom Moisan and are reminiscent of the Arts and Crafts era.

**QUESTION: You have used many petroglyph rubbings as art work. What's the story?**

**ANSWER:** In the early part of April 1992 we were able to purchase from Jeanne Hillis her collection of rubbings. Many of which she made from petroglyphs that are now flooded by waters of Bonneville and John Day dams. She was pleased to find a home for them where people could enjoy seeing them for years to come. We felt they were appropriate as they depict Native American history of this Columbia River Gorge region. We obtained from her 63 older rubbings and commissioned her to produce several rubbings from four sites still accessible. Many of the smaller ones are used in the guest rooms; the larger ones, numbering about 15 are displayed in public spaces. Artist Jeanne Hillis is still very active in the arts. She works and lives in The Dalles.

**QUESTION: Where did you obtain the other art work used in the guest rooms?**

**ANSWER:** We had some on hand in the Gray collection. We concentrated on Oregon and Washington artists and purchased from galleries in Portland, Seattle, Spokane and from local artists. We commissioned some works from Wayne Chinn, Dennis Cunningham, Lois Rahkonen, and Roy Setziol. A separate, detailed booklet on Lodge art work is being developed for guest use later this spring.

**QUESTION: Why do you have some public artifacts on loan?**

**ANSWER:** As part of our public-private partnership, we wanted a continuing and changing educational experience for our guests so they would have a better concept of early life in the Gorge area. Most museums can only display 10-20% of the artifacts they have in storage. We can help in a modest manner in public education by displaying a few selected items. We are starting with items loaned by the Oregon Historical Society and Maryhill Museum. In the future we'll probably use other desirable sources.

**QUESTION: What is the story on the series of special ceramic panels in the covered hallway at the main entrance?**

**ANSWER:** We wanted some tie-in with art work at Salishan Lodge. In 1965 Ray and Jere Grimm, Portland potters and glass artists, created a large ceramic wall piece used in a courtyard at Salishan. We commissioned them to create this multi-panel group. They took their theme from the Columbia Gorge and the Bridge of the Gods legend.

**QUESTION: Now tell us a bit about the specifics of the building; the nuts and bolts if you wish?**

**ANSWER:** The lodge is four stories with a partial basement and totals 153,000 square feet. The building is 750 feet long. Wood, stone and wrought iron are important design and structural elements. There are 250,000 linear feet of wood trim and 800 wood doors. The positioning of the building and use of windows and skylights were carefully considered to take maximum advantage of natural light and gorge vistas. You'll notice indoor and outdoor use of boulders. These were excavated during construction and used throughout the site for retaining walls, seating areas, the waterfall for the outdoor whirlpool and for the sundial sculpture.

**QUESTION: Why do you have a U.S. Forest Service Information Center in your main lobby?**

**ANSWER:** Again, this is part of our public-private partnership. This is staffed by the U.S. Forest Service personnel and their information is available to our guests and day-time visitors. They will also organize a variety of nature walks and talks for public enjoyment. To help this effort we created a small stone-seat amphitheater meadow as a gathering place. A fire pit can be used in the evenings.

**QUESTION: The Health and Fitness Center has a different feeling, why so?**

ANSWER: We wanted our guests and the public to have a different visual experience when they enter this area in contrast to the early 1900's feel of the lodge proper. Thus, it is much more contemporary and vibrant and makes use of harder materials.

QUESTION: **Why did you provide so much public assembly and function space?**

ANSWER: To make this an outstanding conference and meeting place. The wide hallways and extra lobbies are visually attractive reception and breakout spaces to handle a variety of guest and visitor functions.

QUESTION: **What other rationale came into play as you planned the supporting recreational facilities such as golf, tennis, hiking and horseback riding?**

ANSWER: We had a beautiful 175 acre site to work with. Our desire was to blend into the natural environment, become a part of it, disturb as little as possible, work around and with 10 wetlands, two lakes and overcome other natural obstacles. You'll be surprised to know that our wildflower meadow is over an old capped county landfill. In designing the 18-hole golf course we wanted to expose golfers to nature, capitalize on beautiful views and vistas and provide challenging golf that will bring them back many times. Nature dictated the course layout and was the chief architect. Golf cart paths were located so they are as unobtrusive as possible but still convenient to use and visually pleasing.

The Golf Pro Shop and practice area is planned as a separate facility as we anticipate many daytime users in addition to our lodge guests. An excellent practice area is available for driving, pitching, and chipping, sand trap work, and putting. Golf schools are a definite possibility. A convenient snack bar in the Pro Shop will be available to golfers and the public.

Hiking and walking trails were always part of our overall layout. We want guests and the general public to experience and enjoy local native vegetation, wildlife, access to two lakes, the small clear brooks and creeks, and yes, to sit quietly and enjoy a distant or close-up view of the surrounding area.

Four trail systems are being developed covering about four miles. Golf cart paths traverse about the same terrain. The Bridge of the Gods Golf Course will open June 12, 1993.

Two outdoor tennis courts are available for use by the public and lodge guests.

Seasonally, a private contractor will provide horseback trail rides onto public land nearby.

QUESTION: **Where is the wildflower meadow?**

ANSWER: The wildflower meadow is part of the "front lawn" area you see from the Gorge Room windows. The brown earth will grow and blossom with the spring warmth into indigenous grasses and wildflowers. The large sundial is nearby.

QUESTION: **What don't we see but we know is here?**

ANSWER: We have designed an outstanding "back of the house" facility located mainly in the basement for housekeeping, laundry, maintenance, food storage, employee locker and lunch rooms, personnel and accounting offices and shipping and receiving. Attention was given to providing attractive work areas for employees as well as convenient parking. Art work is used in many of the spaces. We always strive to provide well designed and equipped facilities for our employees. "Back of the House" tours will be provided upon request. We would be proud to have you see them.

QUESTION: **Who designed the lodge logo?**

ANSWER: Mel Ulven of Portland, Oregon designed the logo. It represents the gorge mountains and cliffs, Columbia River and the sun. The medium has the appearance of an arts and craft wood block cut.

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Operated by Salishan Lodge, also operators of The Salish Lodge and The Governor Hotel

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