

Classes run 9-12 and 2-5 each day.

	Retreat Day 1 Tuesday, March 27, 2018		Retreat Day 2 Wednesday, March 28, 2018		Retreat Day 3 Thursday, March 29, 2018		Retreat Day 4 Friday March 30, 2018		Retreat Day 5 Saturday, March 31, 2018	
<b>Casey, Maggie</b>		Spinning Big & Lofty Yarns	Start Spinning					Boucle the Easy Way	English v American Longdraw	Spinning Big & Lofty Yarns
<b>Clemes &amp; Clemes</b>	Explorations in Drumcarding									
<b>Demers, Carson</b>				Ergo Spin	Knitting Happily Ever After	Ergo Spin	Ergo Spin		Knitting Happily Ever After	
<b>Egbert, Mary</b>			Fiber Prep Elevated		Fiber Prep Elevated			Taking the Mystery Out of the Box	Taking the Mystery Out of the Box	Silk Fusion: Making Paper
<b>Emerson, Bernadette</b>			Locks in the Lens, Fiber in Focus							Locks in the Lens, Fiber in Focus
<b>Franquemont, Abby</b>			Teaching Spinning	Spindle Plying	Intro to Backstrap Weaving		Intermediate Backstrap Weaving			
<b>Gaustad, Stephenie</b>	The Best from Your Wheel		Plying by Design		Focus on the Drafting Zone		The Best from Your Wheel			
<b>Mackenzie, Judith</b>	Perfect Pairings	Extraordinary Cloth: Spinning Unusual Threads for Weaving	Bountiful Beasts: Spinning the Wild				The Gentle Art of Plying		Extraordinary Cloth: Spinning Unusual Threads for Weaving	Perfect Pairings
<b>Moreno, Jillian</b>	Living Color					Spin & Nosh	Yarnitecture 2		Pretty Maids All in a Row	Spin & Nosh
<b>Mullarkey, John</b>					Pocket Weaving	Pocket Weaving	Woven Shoe Laces			
<b>Robson, Deb</b>	The Classic Down Wools			Basic Things Every Spinner Should Know About Wool	Wool Facts for Wool Geeks		The Classic Down Wools			
<b>Rodgers, Esther</b>					Twisted Together		Spinning Loops	Wild Plying	Wild Plying	
<b>Ruane, Joan</b>			Love Affair: Cotton and Hemp				Spinning off the Point			
<b>Smith, Beth</b>			Spinning Fine Yarns		Wheel to Shuttle		Woolen Style			
<b>Woodhouse, Jane</b>			Intensive Natural Dyeing				Moody Blues: Natural Dyeing			



**Retreat Day 1 – Tuesday, March 27, 2018**

<b>The Best From Your Wheel</b>	<b>Stephenie Gaustad</b>	Half-Day  <b>AM</b>	<p>A must have class for every spinning level! Get a behind the wheel assessment of your wheel in terms of range of yarn sizes available and its efficiency producing those yarns, general wheel mechanics, adjustments and simple modifications to improve or focus your wheel's performance and power. Make your wheel work for you and make sure you work well together!</p> <p><b>Materials fee:</b> \$10  <b>Level:</b> beginner to advanced  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• A functional spinning wheel and all the needed parts</li> <li>• Lubricant as needed.</li> </ul>
<b>Perfect Pairings</b>	<b>Judith Mackenzie</b>	Half-Day  <b>AM</b>	<p>Just like a good wine deserves a good cheese, lovely fibers are often better than ever when paired together. In this class, you'll learn what makes a perfect combination and why and what makes an unfortunate combination and why. You will learn a wide variety of blending styles and design your own unique blend. We will work with yak, silk, fine merino, cotton, alpaca, and kid mohair, to mention a few.</p> <p><b>Materials Fee:</b> \$15  <b>Level:</b> Must be able to make a continuous yarn, helpful if you know how to ply. Should have a good working relationship with your wheel.  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• a spinning wheel and all its parts</li> <li>• 3 bobbins</li> <li>• a lazy kate</li> <li>• range of knitting needles you like to work with</li> <li>• Also bring a set of handcards and a set of small combs if you have them</li> </ul>
<b>Spinning Big and Lofty Yarns</b>	<b>Maggie Casey</b>	Half-Day  <b>PM</b>	<p>Soft yarns, full of air, are a joy to knit and wear, but not so easy to spin. By tweaking our wheels and choosing the right fiber, we can create those big, light, and lofty yarns.</p> <p><b>Material fee</b> \$10  <b>Level:</b> Beginning spinning skills required  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Spinning wheel and all the parts</li> <li>• Especially large whorls</li> <li>• Lazy kate</li> <li>• 3 bobbins</li> </ul>
<b>Extraordinary Cloth: spinning unusual threads for weaving</b>	<b>Judith Mackenzie</b>	Half-Day  <b>PM</b>	<p>Handspinners have been making lovely yarns for weavers for at least 20,000 years and we still come up with new and exciting ways to create threads for cloth. In this seminar, we'll look at making interesting threads for both warp and weft. We'll learn a few tricks on how to sett unusual threads to their best advantage and how to support tender threads like cashmere and qiviut.</p> <p><b>Materials Fee:</b> \$15  <b>Level:</b> Must be able to make a continuous yarn; helpful if you know how to ply. Should have a good working relationship with your wheel.  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Wheel with all its parts</li> <li>• Enough bobbins to do a two ply</li> <li>• Notebook and a pen.</li> <li>• Any yarns or fabrics you may have questions about weaving with</li> </ul>

**Retreat Day 1 – Tuesday, March 27, 2018**

<p><b>The Classic Down Wools</b></p>	<p><b>Deb Robson</b></p>	<p>One-day</p>	<p>When I began research for The Fleece and Fiber Sourcebook, it wasn't clear to me what qualified as a Down wool, even though I'd been spinning for decades. By the time I dug thoroughly into the topic, I had developed a rock-solid concept for what was a Down breed and what breeds were Down-like. We'll consider the theory of both in this workshop, although we will focus on the six core Down breeds: Dorset Down (a hornless sheep with a soft brown face), Hampshire, Oxford, Shropshire, Southdown, and Suffolk.</p> <p>We'll talk about WHY these breeds fit all the family definitions, and why the others that I call Down-like are cousins. We'll also experience a range of Down-wool fleeces, because we have a mission here: to convince the breeders of these sheep that their wool is worth something to us. And it is. It has qualities that aren't replicated in other wools—like a strong reluctance to felt. Lots of Down wools are either dumped into the wool pool for pennies on the pound or composted or stockpiled in barns; commercially, they have very little value, and I'll explain why. Lots of them are ruined when the sheep are slick-shorn for livestock shows that emphasize meat qualities. Those that come off the sheep intact are often filled with vegetable matter. Yet once we know what we can do with these wools, and how uniquely valuable they are, then we're in a position to convince shepherds to take better care of at least a few of their flocks' fleeces. Once we know what Down wools can do that other wools can't, we'll be willing to pay shepherds decently for what could be some of the most versatile fiber on the planet. Everybody wins! Come play and learn why we'd want to do this.</p> <p><b>Materials fee:</b> \$25  <b>Level:</b> Basic spinning skills  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Wheel or spindle</li> <li>• Fiber-prep tools of choice if possible (combs, carders, flicker, or any other, OR dog-grooming combs or slickers, some tools for people to test out and borrow)</li> <li>• Ability to wind a small center-pull ball and ply from it (or skill at Andean plying, or a lazy kate and extra bobbins)</li> <li>• Tape (optional)</li> <li>• A notepad and pen or pencil.</li> <li>• Hole-punch, for keeping track of fiber samples and yarns</li> <li>• Record cards and stationery supplies will be provided</li> </ul> <p><b>Optional:</b> (because we usually run out of time) some participants enjoy having quick-sampling tools, like knitting needles, crochet hooks, or Weave-It or similar extra-simple looms.</p>
<p><b>Explorations in Drum Carding</b></p>	<p><b>Clemes &amp; Clemes</b></p>	<p>One-day</p>	<p>Ready to have drum carding de-mystified? This is the class that will do it. Batts will be prepared both semi-worsted and woolen. Students will learn different techniques to add fiber to an art batt, prepare batts for spinning sock yarn, and learn to add silk or bamboo into woolen batts. Students will also learn to remove fiber as rolags and as pencil-sized sliver through a diz. An ambitious goal of 7 or more batts produced during class means students will have ample carded fiber for spinning samples and small projects after class. All carding and blending will be done on our Elite Series Drum Carders with each student using their own electric carder.</p> <p><b>Materials fee:</b> \$45 covers use of a carder, all fiber carded during class, and batt lifter refills for storing carded batts.  <b>Level:</b> Some drum carding experience is a good idea but if you are a quick learner, come on in!  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• An attitude for learning</li> <li>• All materials and equipment will be provided by the instructors.</li> </ul>

**Retreat Day 1 – Tuesday, March 27, 2018**

<p><b>Living Color: The Ultimate Braid Class</b></p>	<p><b>Jillian Moreno</b></p>	<p>Two- day  <b>Day 1</b></p>	<p>Are you ready for the ultimate dyed braids class, two whole days of experimenting with color? In this class we will spin nothing but beautiful hand-dyed braids of fiber. We'll explore different breeds and blends, but mostly we will play with color.</p> <p>Working with singles yarns, plied yarns and textured yarns, we'll experiment with keeping colors clear, combining and mixing them with naturals, solids and other variegated braids.</p> <p>You'll hone your skills drafting colors together, working with fractals and planning projects with multiple braids. We'll explore how to stretch colors, compliment colors and avoid the dreaded twins of color spinning mud and clown barf.</p> <p>There will be lots of time to discuss the whys and hows of color braids and time to play and experiment. If you'd like, bring pattern ideas that you'd like to spin and knit with variegated yarn.</p> <p><b>Materials fee:</b> \$45  <b>Level:</b> basic spinning skills  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• A wheel is good working order</li> <li>• A lazy kate</li> <li>• Tags to mark samples</li> <li>• Knitting needles that work gauge-wise with your default yarn.</li> <li>• At least four bobbins</li> <li>• A niddy noddy</li> <li>• Pen and paper to take notes</li> </ul>
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**Retreat Day 2 – Wednesday, March 28, 2018**

<p><b>Teaching Spinning</b></p>	<p><b>Abby Franquemont</b></p>	<p>Half-Day  <b>AM</b></p>	<p>Has anyone ever found out you spin, then asked you to teach them, and you did, but with mixed results? Are you thinking about teaching groups of people? Do you teach spinning now, but feel like you could be more successful? This half-day class will orient you to the proven techniques I've used for over a decade as one of the world's most popular spinning teachers. We'll cover hands-on exercises aimed at teaching the basics, but that's not all — we're also going to get into the actual mechanics of teaching, classroom management, and lesson planning. You'll receive a basic lesson plan for teaching introductory spinning, and we'll step through how and why it works.</p> <p><b>Materials fee:</b> \$20</p> <p><b>Level:</b> you should know how to spin well enough that you're willing to consider the idea of teaching the topic. This isn't an entry level spinning class, it's a class about how to teach an entry level spinning class.</p> <p><b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Note-taking materials</li> <li>• A spindle</li> <li>• Spinning wheel, or e-spinner</li> </ul>
<p><b>Locks in the Lens, Spindle in the Shutter</b></p>	<p><b>Bernadette Emerson</b></p>	<p>Half-Day  <b>AM</b></p>	<p>Fiber is gorgeous, yarn is luscious, spinning is interesting, so why doesn't that always come through in photos? This class will help you figure that out and move farther along the road to making your photos look as lovely as your fiber arts. In this hands-on half-day course taught by PLY Magazine's own photographer, you'll learn fundamentals of photography, setting up great shots, how to find and use your light, and more importantly, we'll practice shooting several staged set-ups and discuss how to make your photos pop. Whether you're simply sharing them on social media or taking photos for your indie business, this class will make your pictures more how you want them to be. Whether you're using a cell phone, a camera on auto-mode or manual, it's time to break to take some amazing fibery photos.</p> <p><b>Materials fee:</b> \$5</p> <p><b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• A camera of some kind.</li> </ul> <p><b>Optional:</b> yarns, fiber, or finished objects you'd like to photograph or have had trouble getting good pictures of.</p>
<p><b>Basic Things Every Spinner Should Know about Wool</b></p>	<p><b>Deb Robson</b></p>	<p>Half-Day  <b>PM</b></p>	<p>What I plan for this session is to give you a good grounding in the varieties of wool types, covering their similarities and their differences, in addition to providing a general look at why wool beats the socks off synthetics and always will. Spinners who have worked exclusively from prepared tops or rovings tend to be lured in by color and underestimate the importance of the fiber itself. (I get sucked in by color, too: it's just that I've trained myself to step back and consider the wool substrate before I proceed too far.) For those who have worked with fleeces (raw or clean), the learning can come more quickly, but it still tends to be piecemeal. In this session we'll wrap our minds around the whole world of wool, going into the types of wool fibers, wool grading, staple shapes, fiber lengths, crimp patterns, luster, strength, fiber diameter, and natural color. We'll also touch on wool's physical and chemical properties. Spinning will happen—because I can't go that long without fiber in my hands, and I hope you can't, either—but it will be a condiment in this gathering, rather than the main course.</p> <p><b>Materials fee:</b> \$15</p> <p><b>Level:</b> any and all</p> <p><b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Wheel or spindle for small-scale fiber-testing</li> <li>• Any additional tools that make you comfortable (a spindle alone will suffice for minimalists)</li> <li>• A notepad and pen or pencil.</li> </ul>

**Retreat Day 2 – Wednesday, March 28, 2018**

<b>Spindle Plying</b>	<b>Abby Franquemont</b>	Half-Day  PM	<p>Many spinners enjoy using their spindles to produce singles, but find themselves turning to their wheels when they want to ply. Learn techniques and tricks to make plying easier, faster and more portable with your spindles, and how to achieve several plying structures (as well as why you would want to).</p> <p><b>Materials fee:</b> \$15  <b>Level:</b> Not suited for absolute beginners; you must be reasonably comfortable with spinning singles.  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Nothing, A basic low whorl spindle and fiber will be supplied</li> <li>• Bring spindles you love and spindles you hate if you want to talk about them</li> </ul>
<b>Ergonomics for Spinners</b>	<b>Carson Demers</b>	Half-Day  PM	<p>Time seems suspended when you're at your spinning wheel. Hours melt away but stress and strain can be accumulating in your body. Spinning shouldn't hurt! In this class, you'll learn what ergonomic risk factors are and where they exist in spinning at a wheel. Most importantly you'll learn what to do to minimize them and early warning signs that could prevent an injury. Safer strategies for seating, balancing your spinning work, and of course, stretches will all be taught.</p> <p>This is not a "how to spin" class. Students must be able to spin consistent singles with both forward and long draw.</p> <p><b>Materials fees:</b> \$5  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Spinning Wheel</li> <li>• Bobbin</li> <li>• Fiber will be provided</li> </ul>
<b>Plying by Design</b>	<b>Stephenie Gaustad</b>	One-day	<p>Skills we use to spin a yarn don't necessarily apply to the art of plying. They share the same equipment but beyond that point their paths diverge. They are truly separate jobs. We will focus on tools: "Which Wheel?" kates, hecks, bobbins, balls &amp; winders and techniques: cross reeling, setting twist and wet/dry finishing plied yarn. We will also hands-on explore a dozen reasons to ply your yarn.</p> <p><b>Materials fee:</b> \$7  <b>Level:</b> student must have some experience spinning a single.  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Functional spinning wheel</li> <li>• 2 bobbins, each 100- 200 yds Z spun wool singles</li> <li>• Scissors</li> <li>• Lubricant as needed</li> <li>• Lazy kate</li> <li>• Pocket calculator</li> <li>• 1 empty bobbin</li> <li>• Niddy noddy</li> <li>• Pen/pencil</li> </ul>
<b>Bountiful Beasts, Spinning the Wild</b>	<b>Judith Mackenzie</b>	One-day	<p>Yaks from the wilds of Tibet, camels from the great Gobi desert, musk oxen from the Arctic Circle and bison from the Great Plains – these animals all produce rare and wonderful fibers. In this class, we'll learn how to prepare these fibers for spinning and what techniques work best for spinning them. We'll how to extend these precious fibers by making blends with a variety of fibers.</p> <p><b>Materials fee:</b> \$40.00  <b>Level:</b> Must be able to make a continuous yarn; helpful if you know how to ply. Should have a good working relationship with your wheel.  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• a wheel with all its parts</li> <li>• handcards (cotton if you have them, a pair will be in class to borrow),</li> <li>• enough bobbins to do a three ply</li> <li>• notebook and a pen.</li> </ul>

**Retreat Day 2 – Wednesday, March 28, 2018**

<p><b>Fiber Prep Elevated – Take your fiber prep to new heights</b></p>	<p><b>Mary Egbert</b></p>	<p>One-day</p>	<p>This fun class will give you the tools and know how to create out of this world batts, roving and rolags. You will learn how to make pastels and other colors by blending fibers on the carders (everyone will have their own carder in class). A hackle and even wool combs will be used to give some “oomph” to your finished batts. Learn multi-blended techniques that will give your finished yarn depth and life. I will show you how the thickness of your layered colors can affect your spun yarn and how to apply add-ins like firestar, silk, wool nepps, angelina and locks. Don’t really know what the best way is to spin a given fiber prep? We will study the different ways to spin and draft that showcase your fiber prep the best. Please join me on this fun fiber journey.</p> <p><b>Materials fee:</b> \$15  <b>Level:</b> all  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Niddy noddy</li> <li>• Wool combs or hackles if you have them (2 sets will be available to share and there will be one carder for each)</li> <li>• Bring 2 to 4 ounces of clean, dyed fiber for the class stash table and we’ll add it to everything I bring!</li> </ul>
<p><b>Spinning Fine Yarns</b></p>	<p><b>Beth Smith</b></p>	<p>One-day</p>	<p>Stuck in a rut with your yarns? This class will get you spinning finer than you ever thought possible! You will learn the mechanics of spinning fine yarn and the types of drafting methods that make spinning fine yarn easier. We’ll work with the finest of fibers like cashmere to wools you never would have thought of for fine yarn. You’ll also learn how different fiber preparations will give the great results for fine yarn, and how to best utilize those hand combs, hand cards and flick cards. You’ll go from spinning DK weight yarn to cobweb lace in no time at all.</p> <p><b>Materials Fee:</b> \$30  <b>Level:</b> Students must be able to spin a single and ply.  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• A Spinning Wheel in good working order</li> <li>• Hand held combs if you have them</li> <li>• Flick and hand cards if you have them (Some tools will be available to share)</li> <li>• Note taking materials</li> <li>• Small bags for extra fibers</li> <li>• Hang tags for labeling</li> <li>• Woolee Winders are not recommended for getting the most out of this class.</li> </ul>
<p><b>Dye Naturally and Intensely</b></p>	<p><b>Jane Woodhouse</b></p>	<p>Two day  <b>Day 1</b></p>	<p>Immerse yourself in this 2 intensive dye workshop and you’ll dye a rainbow, naturally! We’ll use 6 extracts plus natural indigo and you’ll come out with a wealth of knowledge, knowhow, and about 200 color samples!</p> <p>Dyeing in gradated series using 6 dye extracts and a natural ferment indigo vat, you’ll create a beautiful pallet of colors. You will produce amazing color samples using an alum mordant on wool or a wool/mohair blend yarn and you’ll be dyeing each color with white and grey yarn and then taking part of each sample to over dye in indigo. You’ll be struck at the results and with the comprehensive dye notebook with workshop instructions as well as notes for working on your own to dye yarns and fibers, you’ll be ready to go it alone!</p> <p><b>Please note,</b> these extracts have been developed for the commercial dye market and while relatively non-toxic are very colorfast.</p> <p><b>Materials Fee:</b> \$35  <b>Level:</b> Beginning – Advanced dyers. Some familiarity with dye methods is helpful but not necessary.  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Good rubber gloves,</li> <li>• Scissors</li> <li>• Sharpie or other waterproof marker</li> <li>• Apron or old clothing to dye in.</li> </ul>

**Retreat Day 2 – Wednesday, March 28, 2018**

<p><b>Learn to Spin or Refresh Your Skills</b></p>	<p><b>Maggie Casey</b></p>	<p>Two day  <b>Day 1</b></p>	<p>Spider Woman taught the Navajo to spin with spindles of lightning and turquoise. Gandhi encouraged the people of India to spin every day for meditation and economic freedom. Rumpelstiltskin spun straw into gold and Sleeping Beauty pricked her finger on her spindle and fell into a deep sleep. History and fable are full of tales of spinning and its effect on the people who do it. If you have always wanted to spin, have taught yourself a little, or haven't spun for a while, this workshop will be just what you need to gain confidence and skill. We will start with a beautiful fleece, learn to card, spin, ply and set the twist. Then we will spin woolen and worsted yarns, some commercially prepared fibers and discuss wheel maintenance. Spinning straw into gold may be beyond our reach, but beautiful yarn is not!</p> <p><b>Material fee:</b> \$20  <b>Level:</b> No experience necessary  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Spinning wheel and all its parts (some are available to rent from PLY Away)</li> <li>• Lazy Kate and at least 3 bobbins</li> <li>• Wool hand cards if you have them, some will be in class</li> </ul>
<p><b>Cotton and Hemp's Love Affair</b></p>	<p><b>Joan Ruane</b></p>	<p>Two day  <b>Day 1</b></p>	<p>Cotton and hemp are both cellulose fibers and they blend well together; this class will help you fall in love with these fibers for the first time, or all over again. You'll learn to spin each separate and then to blend the two fibers, watching their love affair grow.</p> <p>The first morning we will start off with hemp fiber and learn about the different preparations that are available on the market. Then we will learn how to spin each preparation to get the best results. I'll cover the finishing and storage of the fiber too. While spinning the fiber I will give a basic, interesting history of hemp. You won't spend any time bored in this class.</p> <p>The afternoon we lead us to carding and blending both colored and mixed cotton/hemp fiber. You will learn the proper carding technique for blending short staple fiber like hemp, lint, and cotton lint. The blending will give you a good understanding of texture and color for making unique cellulose yarns. You'll be making punis in no time and then you're ready for spinning on your wheels. That afternoon we will discuss wheels and how to adjust your own wheel for these short fibers.</p> <p>Day 2 is exciting too! With a supply of carded punis, we will go right into spinning unique yarns that will be one of a kind. First I'll cover the basic techniques of spinning cotton and short staple fiber. Then we'll move into cotton sliver and finally plying techniques and equipment. I'll talk about the importance of balancing your yarn and then we'll look and evaluate each skein and come up with a solution for correction if needed. We'll talk about finishing, storage, and uses for the yarn, too. This is an exciting day as you will be going home with some unique and beautiful skeins of yarn and a new love for these short fibers.</p> <p><b>Materials fee:</b> \$20  <b>Level:</b> must have basic spinning and plying skills. This is not a beginning spinning class.  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Flyer driven spinning wheels with all the working parts</li> <li>• A lazy kate</li> <li>• Niddy nobby if you have it</li> <li>• Pillow for chair if you want it.</li> <li>• 4 bobbins</li> <li>• Notebook</li> <li>• Handcards (200+ ppi, if possible) if you have them</li> <li>• Tags for labeling</li> </ul>

**Retreat Day 2 – Wednesday, March 28, 2018**

**Living Color:  
The Ultimate  
Braid Class**

**Jillian  
Moreno**

Two-  
day  
  
**Day 2**

*See Description Day 1*



**Retreat Day 3 – Thursday, March 29, 2018**

<p><b>Knitting Happily Ever After – Ergonomics for Knitters</b></p>	<p><b>Carson Demers</b></p>	<p>Half-Day  <b>AM</b></p>	<p>Ever known a knitter who hasn't said, "Just one more row"? Me neither! I'll bet they've also complained of aches and pains while knitting. In this class, you'll learn how knitting affects the "fabric that makes the fabric"- your body – and see how your knitting technique impacts your efficiency and productivity. By completing a Risk of Injury assessment in class you'll learn how knitting contributes to those aches and pains throughout your body. But more importantly, you'll learn how to reduce them. A little knowledge and some simple changes can keep you knitting comfortably and safely ever after. Students who've taken this class have said that it should be "required learning for all knitters regardless of experience level!" and, "it's as important as the knit and purl stitches!" This class is taught by a passionate knitter who is also a physical therapist. This class is not an individual knitting assessment.</p> <p><b>Materials fees:</b> \$0  <b>Level:</b> Class is suitable for all levels of knitting experience.  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• a knitting project of their choosing</li> <li>• a bath-sized towel (hotel is fine)</li> <li>• materials to take notes if you wish to do so</li> </ul>
<p><b>Pocket Weaving</b></p>	<p><b>John Mullarkey</b></p>	<p>Half-Day  <b>AM</b></p>	<p>Weaving looms can be small enough to fit in your pocket – well a largish pocket. Learn how to weave on pin looms such as the Weave-it, Weavette, or Schacht's Zoom Loom for quick sampling or fun, quick projects. Come create a pocket for your cell phone or iPod while learning joining and construction techniques for these addictive little handheld looms. Zoom Looms will be provided.</p> <p><b>Material Fee:</b> \$5  <b>Level:</b> Beginner  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Pin loom if they have one, looms will also be provided.</li> </ul>
<p><b>Ergonomics at Your Spinning Wheel – Ergonomics for Spinners</b></p>	<p><b>Carson Demers</b></p>	<p>Half-Day  <b>PM</b></p>	<p>Time seems suspended when you're at your spinning wheel. Hours melt away but stress and strain can be accumulating in your body. Spinning shouldn't hurt! In this class, you'll learn what ergonomic risk factors are and where they exist in spinning at a wheel. Most importantly you'll learn what to do to minimize them and early warning signs that could prevent an injury. Safer strategies for seating, balancing your spinning work, and of course, stretches will all be taught.</p> <p>This is not a "how to spin" class. Students must be able to spin consistent singles with both forward and long draw.</p> <p><b>Materials fees:</b> \$5  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Spinning Wheel</li> <li>• Bobbin</li> <li>• Fiber will be provided</li> </ul>

**Retreat Day 3 – Thursday, March 29, 2018**

<p><b>Spin and Nosh: Sheep Sampler: Down Breeds</b></p>	<p><b>Jillian Moreno</b></p>	<p>Half-Day  <b>PM</b></p>	<p>There are two things I love about sheep – their wool and their cheese! Come explore both in this spinning and snacking class. We'll sample five different commercially prepared fibers and fiber blends that might get overlooked, breeds that are considered down or down-like, like Southdown, Clun Forest, Oxford, and Tunis. We'll talk spinning how-tos, do you spin them woolen or worsted? How to spin them fine and how to spin them fat, and of course discuss beautiful things to make with them. I did mention sheep cheese right? In between spinning we will nibble several sheep cheeses. You'll learn about how sheep and cow milk cheese differ and what makes sheep cheese special. These will be different cheeses than we sampled last year. I think you will be happily surprised by the variety in flavor and texture of sheep cheeses and their tasty accompaniments. Yes, if you'd like to bring wine or beer to this class, you may. <b>Materials fee: \$30</b> <b>Level:</b> basic spinning and eating skills <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• A wheel is good working order, or a spindle</li> <li>• A lazy kate</li> <li>• Three bobbins – or be happy w/ playback samples of yarns</li> <li>• A niddy noddy</li> <li>• Tags to mark samples</li> <li>• Pen and paper to take notes.</li> </ul>
<p><b>Pocket Weaving</b></p>	<p><b>John Mullarkey</b></p>	<p>Half-Day  <b>PM</b></p>	<p>Weaving looms can be small enough to fit in your pocket – well a largish pocket. Learn how to weave on pin looms such as the Weave-it, Weavette, or Schacht's Zoom Loom for quick sampling or fun, quick projects. Come create a pocket for your cell phone or ipod while learning joining and construction techniques for these addictive little handheld looms. Zoom Looms will be provided. <b>Material Fee: \$5</b> <b>Level:</b> Beginner <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Pin loom if they have one, looms will also be provided.</li> </ul>
<p><b>Wool Facts for Wool Geeks</b></p>	<p><b>Deb Robson</b></p>	<p>One-day</p>	<p>Oh, there's lots of territory to cover in an in-depth examination of wool! Wool is an incredibly complex biological structure. Humans have been working with and studying wool for many thousands of years, and we know a great deal about it—although it still holds mysteries. With a whole day, we can go deep, although we'll leave some areas untouched because there's so much to consider. Among the things we'll talk about are the structure of the fiber; why it can both repel and absorb water; what we know about feltability (and what we don't); superwash treatments; how to damage wool (and how not to); and more. We might get into genetics, time and interest permitting. We'll also have wool samples to play with, because I believe in learning with fingers as well as brains. Bring your questions! If I know the answers, we'll cover them. If I don't, I'll add them to my ongoing research list. The possibilities are endless. <b>Materials fee: \$35</b> <b>Level:</b> basic spinning skills <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Wheel or spindle for small-scale fiber-testing</li> <li>• Any additional tools that make you comfortable (a spindle alone will suffice for minimalists)</li> <li>• A notepad and pen or pencil.</li> </ul>

**Retreat Day 3 – Thursday, March 29, 2018**

<p><b>Spinning wheel to Shuttle: Getting Started</b></p>	<p><b>Beth Smith</b></p>	<p>One-day</p>	<p>Have you been wanting to use your handspun for weaving? Do you have a fiber that you know would make a beautiful woven fabric but aren't sure where to begin? I'm happy to help. Join me while I share my thought processes when I'm working on a new weaving project.</p> <p>In this class you choose a fiber from your stash that you would love to spin for weaving and I will help you make that happen. We will talk about twist and how much is necessary and how to decide. We will talk about plying and how different numbers of plies change the fabric. We will make lots of yarn samples and then make a small fabric sample to see the results.</p> <p>At the same time we will talk about how to translate all of this to your loom at home and how to make woven samples and why they are important. We will discuss how to finish your cloth to make it ready for its end use.</p> <p><b>Materials Fee:</b> \$0</p> <p><b>Level:</b> Students should be able to spin a single and ply.</p> <p><b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• 2 to 3 ounces of a fiber you want to weave with</li> <li>• A spinning wheel in good working order with 3 empty bobbins OR a spindle</li> <li>• Small hand held loom such as the Purl and Loop Swatchmaker, Hockett Loom or Schacht Mini Loom (a few will be available in class if you don't have one)</li> <li>• Tags for labeling samples</li> <li>• Note taking materials.</li> </ul>
<p><b>Twisted Together- Crepe, Cables and the Endless Possibilities of Mega Plying</b></p>	<p><b>Esther Rodgers</b></p>	<p>One-day</p>	<p>This is a great class for all sorts of spinners- from ultra-textured art yarn spinners, to the most traditional lace weight spinners!! In this full day class students will explore the structure of a layered ply. Going through the structure and execution of these techniques, we'll begin with basic crepes and cables and then will create various samples by mixing and matching. Students will see what happens when you combine techniques. The boundaries of plying and plying and plying again will be challenged while textures are created, perhaps for the first time.</p> <p><b>Homework:</b> bobbin of fresh overspun singles (as even as possible),</p> <p><b>Materials fees:</b> \$35</p> <p><b>Level:</b> Students should be able to spin a single of different weights, and ply comfortably</p> <p><b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• 8 oz of fiber per spinner</li> <li>• Plying yarns are provided but please bring extra (a mix of colors of batts and top/roving- including 2-4 oz of a solid color)</li> <li>• Spinning wheel or spindles</li> <li>• Bobbins</li> <li>• Niddy noddy</li> <li>• Lazy kate</li> <li>• Plying yarns they would like to play with.</li> </ul>
<p><b>Focus on the Drafting Zone</b></p>	<p><b>Stephenie Gaustad</b></p>	<p>One-day</p>	<p>Yarn is born in the drafting zone where the twist meets the fiber, tickles it and says, "come". Learn where the zone is and how to manage it. Control the size, consistency and texture of your yarns and confirm that indeed, it all happens in the "zone". During class we will make: ultra-fine and extra plump yarns, slubs on call, smooth and truly hairy ones all by tickling the drafting zone.</p> <p><b>Materials fee:</b> \$15</p> <p><b>Level:</b> beginner to advanced</p> <p><b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• A functional spinning wheel and all the needed parts</li> <li>• Lubricant as needed.</li> </ul>

**Retreat Day 3 – Thursday, March 29, 2018**

<p><b>Fiber Prep Elevated – Take your fiber prep to new heights</b></p>	<p><b>Mary Egbert</b></p>	<p>One-day</p>	<p>This fun class will give you the tools and know how to create out of this world batts, roving and rolags. You will learn how to make pastels and other colors by blending fibers on the carders (everyone will have their own carder in class). A hackle and even wool combs will be used to give some “oomph” to your finished batts. Learn multi-blended techniques that will give your finished yarn depth and life. I will show you how the thickness of your layered colors can affect your spun yarn and how to apply add-ins like firestar, silk, wool nepps, angelina and locks. Don’t really know what the best way is to spin a given fiber prep? We will study the different ways to spin and draft that showcase your fiber prep the best. Please join me on this fun fiber journey.</p> <p><b>Materials fee:</b> \$15  <b>Level:</b> all  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Niddy noddy</li> <li>• Wool combs or hackles if you have them (2 sets will be available to share and there will be one carder for each)</li> <li>• Bring 2 to 4 ounces of clean, dyed fiber for the class stash table and we’ll add it to everything I bring!</li> </ul>
<p><b>Tanka Ch’oro: Intro to Andean Backstrap Weaving</b></p>	<p><b>Abby Franquemont</b></p>	<p>One-day</p>	<p>Have you been wanting to learn how Andean weavers produce intricate and sophisticated textiles using nothing more than a bundle of sticks? Or maybe looking for a low-equipment, low-cost, portable way to weave? Developed and taught by Abby Franquemont, who grew up learning to weave with her peer group in Chinchero, Cusco, Peru, this class is designed to be as close as possible to the experience of learning to weave as a child within the Chinchero tradition, while still being doable in a single day in a conference room setting. It’s just the ticket for getting started, or as a refresher before a more advanced class in Andean backstrap weaving (in fact, it’s the prerequisite for a number of Abby’s more advanced backstrap weaving classes).</p> <p>You’ll receive one pre-configured warp and set of tools, all set up and ready to weave, and you’ll weave on that while you learn the names of loom parts, how to work them, and how to troubleshoot. Warping, heddles, and configuration will be demonstrated, and you will learn the basics of Tanka Ch’oro, the essential first weaving pattern that for centuries has served to teach Andean weavers a deep and intuitive understanding of weaving principles.</p> <p><b>Special note:</b> most people are happiest in this class if they can sit on the floor, but you can take it while sitting in a chair. Backstrap weaving can be more physically tiring than you might expect! Bring a cushion or pillow to sit on if you can, and dress in comfortable clothes that allow you to move easily!</p> <p><b>Materials Fee:</b> \$40, includes pre-configured and started warp / loom (they’re the same thing in this method of backstrap weaving!) basic Andean weaving tools, and handout.</p> <p><b>Level:</b> This class has no prerequisites, but you will probably get more out of it if you study the glossary of terms we’ll send you by email a week before the class.</p> <p><b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>•Note-taking materials</li> <li>•Something to sit on</li> <li>•A desire to have your mind blown by what indigenous Andean preschoolers have been learning since time out of mind.</li> </ul>
<p><b>Dye Naturally and Intensely</b></p>	<p><b>Jane Woodhouse</b></p>	<p>Two day  Day 2</p>	<p><i>See Description Day 1</i></p>

**Retreat Day 3 – Thursday, March 29, 2018**

<b>Learn to Spin or Refresh Your Skills</b>	<b>Maggie Casey</b>	Two day  <b>Day 2</b>	<i>See Description Day 1</i>
<b>Cotton and Hemp's Love Affair</b>	<b>Joan Ruane</b>	Two day  <b>Day 2</b>	<i>See Description Day 1</i>



**Retreat Day 4 – Friday, March 30, 2018**

<p><b>The Best From Your Wheel</b></p>	<p><b>Stephenie Gaustad</b></p>	<p>Half-Day  <b>AM</b></p>	<p>A must have class for every spinning level! Get a behind the wheel assessment of your wheel in terms of range of yarn sizes available and its efficiency producing those yarns, general wheel mechanics, adjustments and simple modifications to improve or focus your wheel’s performance and power. Make your wheel work for you and make sure you work well together! <b>Materials fee:</b> \$10 <b>Level:</b> beginner to advanced <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• A functional spinning wheel and all the needed parts</li> <li>• Lubricant as needed.</li> </ul>
<p><b>Spinning Loops: Investigating Boucle</b></p>	<p><b>Esther Rodgers</b></p>	<p>Half-Day  <b>AM</b></p>	<p>Do you want to spin loops? This is the class to teach you how! We’ll start with basic boucle construction and then we’ll talk about how different types of singles construction will affect the way your boucle acts and looks. You’ll explore 2 different single structures (thick and thin and corespun), and how they perform when being turned into boucle. By the end of these 3 hours, you’ll better understand the structure of boucle and how the singles that build it, change it. <b>Homework:</b> bobbin of fresh overspun singles (as even as possible) <b>Materials fee:</b> \$20 <b>Level:</b> be able to spin a single of different weights &amp; ply comfortably. Corespinning knowledge helpful, but not required. <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Spinning wheel or spindles</li> <li>• Niddy noddy</li> <li>• Any plying yarns they would like to play with</li> <li>• Multiple types of fiber prep tools will be provided along with 4 oz of fiber for each spinner.</li> <li>• 3 bobbins</li> <li>• Lazy kate</li> </ul>
<p><b>Ergonomics at Your Spinning Wheel – Ergonomics for Spinners</b></p>	<p><b>Carson Demers</b></p>	<p>Half-Day  <b>AM</b></p>	<p>Time seems suspended when you’re at your spinning wheel. Hours melt away but stress and strain can be accumulating in your body. Spinning shouldn’t hurt! In this class, you’ll learn what ergonomic risk factors are and where they exist in spinning at a wheel. Most importantly you’ll learn what to do to minimize them and early warning signs that could prevent an injury. Safer strategies for seating, balancing your spinning work, and of course, stretches will all be taught. This is not a “how to spin” class. Students must be able to spin consistent singles with both forward and long draw. <b>Materials fees:</b> \$5 <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Spinning Wheel</li> <li>• Bobbin</li> <li>• Fiber will be provided</li> </ul>

**Retreat Day 4 – Friday, March 30, 2018**

<p><b>Woolen Style – Carding</b></p>	<p><b>Beth Smith</b></p>	<p>Half-Day  <b>AM</b></p>	<p>Is there really a difference between yarn spun from hand carded wool and yarn spun from wool that was processed on a drum carder? Let’s try things and see what happens. In this half day class we will focus on techniques of using these tools. How to get the best prep from each and how different methods of removing the wool from the carding cloth on both can offer different effects.</p> <p><b>Materials Fee:</b> \$20  <b>Level:</b> Beginner  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• A drum carder will be provided for each spinner</li> <li>• Please bring hand cards if you have them (a few will be available in class to share for those who don’t yet have their own)</li> </ul>
<p><b>Mohair Boucle the Easy Way: Differential Shrinkage</b></p>	<p><b>Maggie Casey</b></p>	<p>Half-Day  <b>PM</b></p>	<p>If you like the look of boucle, but not the time it takes to make the little curls—this class may be just what you are looking for. We will take a little wool and a little mohair, and with a little spinning, a little soapy water, and a little magic, VOILA BOUCLE! No fussing required!</p> <p><b>Material fee</b> \$10  <b>Level:</b> Beginning spinning skills required  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Spinning wheel and all its parts</li> <li>• Lazy kate and 3 bobbins</li> </ul>
<p><b>Take the Mystery Out of The Box</b></p>	<p><b>Mary Egbert</b></p>	<p>Half-Day  <b>PM</b></p>	<p>Have you ever gotten one of those mystery fiber boxes and it’s a mystery to you how to spin all that fiber into a cohesive yarn? This class will teach you how to look at mismatched fibers and design a unique and beautiful yarn. You will study the color and texture of the fibers to help you with your decision making process. You will get insight on what the best spinning technique would be for your given mystery fibers. Be brave and think outside the box with this fun class! Each student will get their very own PLY Mystery Spinning Box.</p> <p><b>Materials fee:</b> \$25  each student will receive a Ply Mystery Spinning Box with at least 11 ounces of prepped and mysterious fiber.</p> <p><b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Wheel</li> <li>• 3 bobbins</li> <li>• Niddy noddy</li> <li>• Lazy kate or ball-winder (which ever you prefer for plying).</li> </ul>
<p><b>Wild Plying- Beehives, Bobbles, Crescents and Coils and How to Use Them!</b></p>	<p><b>Esther Rodgers</b></p>	<p>Half-Day  <b>PM</b></p>	<p>Ever wonder how to how to spin those funky plied yarns with bobbles and coils? In this class we’ll cover the entire process by combining the function with the funky with the essentials of art-plying. We’ll spin the singles needed, then we’ll “wild” ply into, coils, crescents, beehives, twists, stacks and spirals! As a bonus in this class we will talk about how these yarns are used in knitting and weaving.</p> <p><b>Homework:</b> bobbin of fresh overspun singles (as even as possible),  <b>Material Fee:</b> \$20  <b>Level:</b> must be able to spin a single and ply on a wheel.  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• 4 oz of assorted fiber will be provided</li> <li>• Spinning wheel</li> <li>• Lazy kate</li> <li>• Please bring a bit of extra fiber (mix of batts and top/roving)</li> <li>• Bobbins</li> <li>• Niddy noddy</li> <li>• Any plying yarns they would like to play with (some will be provided)</li> </ul>

**Retreat Day 4 – Friday, March 30, 2018**

<p><b>The Gentle Art of Plying</b></p>	<p><b>Judith Mackenzie</b></p>	<p>One-day</p>	<p>Plying is definitely an art that adds many qualities to the yarn we use. In this class you'll learn when to ply — and why — and when not to ply — and why. We'll learn how to ply for classic worsted spun yarn and classic woolen spun yarn. We'll learn how to modify the classics when we need to and how to create a wide variety of novelty textures by plying. I'll bring along singles for you to ply. Please bring any yarns you have questions about.</p> <p><b>Materials Fee:</b> \$15</p> <p><b>Level:</b> Must be able to make a continuous yarn; helpful if you know how to ply. Should have a good working relationship with your wheel.</p> <p><b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• A spinning wheel and all its parts</li> <li>• an array of knitting needles you like to work with</li> <li>• A set of handcards and a set of small combs if you have them.</li> <li>• I'll provide singles for you to work with, but bring any singles you have questions about</li> </ul> <ul style="list-style-type: none"> <li>• 3 bobbins</li> <li>• a lazy kate</li> </ul>
<p><b>Tablet Weaving: Woven Shoe Laces</b></p>	<p><b>John Mullarkey</b></p>	<p>One-day</p>	<p>You can weave your own shoe laces and in this class you will! Using a weaving technique called tablet weaving, and literally using cards as your loom, learn how to weave laces out of crochet cotton. Your fly shoes will only get flyer with laces you've woven for them.</p> <p><b>Material Fee:</b> \$15, students receive 20 cards, 1 shuttle, and documentation</p> <p><b>Level:</b> Beginner, No weaving experience required.</p> <p><b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Scissors</li> <li>• Four balls or cones of 10/2 mercerized or unmercerized cotton or #10 crochet thread</li> <li>• Each ball should be at least 1/2 ounce</li> <li>• Two balls of one color, and two balls of one different highly contrasting color</li> <li>• There will not be time in class to wind off, so please come prepared with four yarn sources.</li> </ul>

**Retreat Day 4 – Friday, March 30, 2018**

<p><b>The Classic Down Wools</b></p>	<p><b>Deb Robson</b></p>	<p>One-day</p>	<p>When I began research for The Fleece and Fiber Sourcebook, it wasn't clear to me what qualified as a Down wool, even though I'd been spinning for decades. By the time I dug thoroughly into the topic, I had developed a rock-solid concept for what was a Down breed and what breeds were Down-like. We'll consider the theory of both in this workshop, although we will focus on the six core Down breeds: Dorset Down (a hornless sheep with a soft brown face), Hampshire, Oxford, Shropshire, Southdown, and Suffolk.</p> <p>We'll talk about WHY these breeds fit all the family definitions, and why the others that I call Down-like are cousins. We'll also experience a range of Down-wool fleeces, because we have a mission here: to convince the breeders of these sheep that their wool is worth something to us. And it is. It has qualities that aren't replicated in other wools—like a strong reluctance to felt. Lots of Down wools are either dumped into the wool pool for pennies on the pound or composted or stockpiled in barns; commercially, they have very little value, and I'll explain why. Lots of them are ruined when the sheep are slick-shorn for livestock shows that emphasize meat qualities. Those that come off the sheep intact are often filled with vegetable matter. Yet once we know what we can do with these wools, and how uniquely valuable they are, then we're in a position to convince shepherds to take better care of at least a few of their flocks' fleeces. Once we know what Down wools can do that other wools can't, we'll be willing to pay shepherds decently for what could be some of the most versatile fiber on the planet. Everybody wins! Come play and learn why we'd want to do this.</p> <p><b>Materials fee:</b> \$25</p> <p><b>Level:</b> Basic spinning skills</p> <p><b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Wheel or spindle</li> <li>• Fiber-prep tools of choice if possible (combs, carders, flicker, or any other, OR dog-grooming combs or slickers, some tools for people to test out and borrow)</li> <li>• Ability to wind a small center-pull ball and ply from it (or skill at Andean plying, or a lazy kate and extra bobbins)</li> <li>• Tape (optional)</li> <li>• A notepad and pen or pencil.</li> <li>• Hole-punch, for keeping track of fiber samples and yarns</li> <li>• Record cards and stationery supplies will be provided</li> </ul> <p><b>Optional:</b> (because we usually run out of time) some participants enjoy having quick-sampling tools, like knitting needles, crochet hooks, or Weave-It or similar extra-simple looms.</p>
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**Retreat Day 4 – Friday, March 30, 2018**

<p><b>Spinning off the Point</b></p>	<p align="center"><b>Joan Ruane</b></p>	<p>One-day</p>	<p>Spinning off the point is such fun! This class is designed to help you discover your skill and wonder at spinning off the point using a variety of fibers. The morning will be dedicated to learning how to spin off an Indian style takli spindle using cotton and other short staple down fibers. We will discuss the best type of fiber to use with the takli spindle and why. You'll learn how to store and finish the yarn made on the takli spindle as well as possible uses for the yarn made on this little spindle.</p> <p>The afternoon will turn to the many other supported spindles available and using the basic techniques you learned in the morning, we will cover as many different types of support spindles as available in the class, and there will be many. I will do demonstrations on all types and you will get an opportunity to spin on as many as you want. Different types of practical fibers will be available for you to try during the afternoon as we cover the proper way to hold and spin the takli spindle, how to attach the fiber, the uses of the hook, drafting the long draw method, solving problems like breakage, slubs, too short an arm, etc., Finishing and storing the yarn including how to measure your yardage, learning to use other types of supported spindles, and the differences. Of course, there will be plenty of practice time with where I'm available to help and answer questions.</p> <p><b>Materials fee: \$15</b></p> <ul style="list-style-type: none"> <li>• I will provide a takli and bowl plus fiber and an assortment of other support spindles for use in the class.</li> </ul> <p><b>Level:</b> All levels of spinners, even non-spinners!</p> <p><b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Notebook</li> <li>• Small niddy noddy if you have one</li> <li>• Tags for labeling</li> </ul> <p><b>Optional:</b> Any support spindle or quill type device</p>
<p><b>Moody Blues: Natural Dyeing</b></p>	<p align="center"><b>Jane Woodhouse</b></p>	<p>One-day</p>	<p>Enjoy the moody blues with this one day intensive dye workshop using natural dye extracts. For this class we will be using a wide variety of dyestuffs along with indigo to produce a palette of complex blues, greens, purples and turquoise/teals. Indigo is the primary basis for this class that will use a natural vat to dye and over dye wool/mohair yarn samples. Our color range, while limited to one particular section of the color wheel, will explore both bright and intense as well as subtle and muted hues. We will layer 2 and 3 colors to build a formula base and develop skill working with indigo to produce approximately 50 color samples. The Moody blues have never looked so good and with the comprehensive dye notebook with workshop instructions as well as notes for working on your own to dye yarns and fibers, you'll be ready to go it alone!</p> <p><b>Please note,</b> these extracts have been developed for the commercial dye market and while relatively non-toxic are very colorfast.</p> <p><b>Materials Fee: \$20</b></p> <p><b>Level:</b> Beginning – Advanced dyers. Some familiarity with dye methods is helpful but not necessary.</p> <p><b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Good rubber gloves</li> <li>• Sharpie or other waterproof marker</li> <li>• Scissors</li> <li>• Apron or old clothing to dye in</li> </ul>

**Retreat Day 4 – Friday, March 30, 2018**

<p><b>Yarnitecture 2: Shop to Shawl, Spinning for a Specific Project</b></p>	<p><b>Jillian Moreno</b></p>	<p>One- day</p>	<p>You learned the basics of creating a yarn from fiber to finish in Yarnitecture, now let's put it into practice!          In this class we will spend our time sampling for a specific project.          From our in-class stash you will choose a commercial fiber to work with to sample through draft, ply, color manipulation, finish and knitting to make the perfect yarn for one of our class-exclusive patterns.          Will you work toward a lace scarf project, a textured cowl, or a perfectly plain stockinette hat?          While you work we will explore how each decision in the spinning process affects your finished yarn and your finished project.          A few of the things we'll discuss are:</p> <ul style="list-style-type: none"> <li>• Choosing fiber and fiber blends</li> <li>• Drafting for loft or density</li> <li>• Plying for stitch definition</li> <li>• What using a variegated fiber means to your stitch pattern</li> <li>• Keeping yarn consistent through a project</li> <li>• How to evaluate your yarn.</li> <li>• Elements of successful sampling</li> <li>• How to sample quickly</li> </ul> <p>My Yarnitecture 1 class or book is recommended before taking this class, but if that's not possible please have the ability to adjust your wheel and make a plied yarn that pleases you.          If you'd like, bring pattern ideas that you'd like to spin and knit.  <b>Materials fee:</b> \$35  <b>Level:</b> basic spinning skills  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• A wheel in good working order</li> <li>• At least four bobbins</li> <li>• Lazy kate</li> <li>• Niddy niddy</li> <li>• Tags to mark samples</li> <li>• Pen and paper to take notes</li> <li>• Knitting needles that work gauge-wise with your default yarn.</li> </ul>
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**Retreat Day 4 – Friday, March 30, 2018**

<p><b>Awaq Sipas: Andean Backstrap Weaving For Young Adults of Any Age</b></p>	<p align="center"><b>Abby Franquemont</b></p>	<p>Two day  <b>Day 1</b></p>	<p>“Awaq warmi” means “weaver woman” in Quechua, the indigenous language of the Peruvian Andes. It was what my friends and I aspired to be when we grew up. But before we could get there, the awaq warmi would tell us, we’d have to be weaver tweens and weaver young adults — awaq pashn̄a, awaq sipas. You don’t have to be any particular age or gender to take this class, but you do need to have completed my introductory course or checked with me to see if you have the prerequisites, which are: already know Tanka Ch’oro, have participated in at least one warping session, and have tied at least one heddle. Why? Because, at long last, this is the class for the next level. This is the class for everyone who has learned their Andean backstrap weaving basics, but now wants to know: what next? What are the things you need to know to start moving towards weaving the really large, really impressive fabrics even people who don’t weave think are impressive?</p> <p>In this 2-day session, you will expand your warping knowledge to include methods using 2 or 3 pegs instead of 4; learn how to work as part of a warping duo; learn to tie larger heddles for larger pieces; learn techniques for working wider pieces; explore the difference between complementary warp-faced structures and supplementary structures; learn to combine those structures in the same warp; and learn how to sample to explore the possibilities offered by different yarns. If that’s not enough, we’ll also go through a selection of finishing techniques for 3-selvedge and 4-selvedge pieces, start delving into the question of making your own tools for even larger pieces, and we’ll make it all happen around a project: a small bag sure to be admired by all your friends, but as with most intricate weaving projects, genuinely understood by few! But fortunately for everyone, you’ll be able to explain the heck out of your small bag and show everyone the technical details they missed and why they’re cool.</p> <p><b>Materials fee:</b> \$75, includes weaving tools, use of warping equipment, in-depth color handout booklet, and large selection of yarn suitable for warp-faced weaving under high tension.</p> <p><b>Level:</b> people who have already completed Tanka Ch’oro: Intro to Andean Backstrap Weaving (or equivalent), and whose eyes did not glaze over completely reading this class description.</p> <p><b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Notetaking materials</li> <li>• Something to sit on if you plan to sit on the floor</li> <li>• All the questions you may have stored up since a prior class</li> <li>• Any backstrap-weaving-related tools you have made or already own (unless they’re too cumbersome to travel with)</li> <li>• Any finished piece of your weaving using these methods which you’d like to discuss</li> <li>• Any Andean backstrap-woven piece you own and wish you understood better from a technical perspective</li> <li>• Any yarn you may have spun with intent to use for Andean backstrap weaving.</li> </ul>
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**Retreat Day 5 – Saturday, March 31, 2018**

<p><b>Wild Plying- Beehives, Bobbles, Crescents and Coils and How to Use Them!</b></p>	<p><b>Esther Rodgers</b></p>	<p>Half- Day  <b>AM</b></p>	<p>Ever wonder how to how to spin those funky plied yarns with bobbles and coils? In this class we'll cover the entire process by combining the function with the funky with the essentials of art-plying. We'll spin the singles needed, then we'll "wild" ply into, coils, crescents, beehives, twists, stacks and spirals! As a bonus in this class we will talk about how these yarns are used in knitting and weaving.  <b>Homework:</b> bobbin of fresh overspun singles (as even as possible),  <b>Material Fee:</b> \$20  <b>Level:</b> must be able to spin a single and ply on a wheel.  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• 4 oz of assorted fiber will be provided</li> <li>• Spinning wheel</li> <li>• Lazy kate</li> <li>• Please bring a bit of extra fiber (mix of batts and top/roving)</li> <li>• Bobbins</li> <li>• Niddy noddy</li> <li>• Any plying yarns they would like to play with (some will be provided)</li> </ul>
<p><b>Pretty Maids All in a Row: Successive Color Plying</b></p>	<p><b>Jillian Moreno</b></p>	<p>Half- Day  <b>AM</b></p>	<p>Successive plying is a great way to mix color and stretch your braid stash for a bigger project. All you need are beautifully dyed braids and to plan an order to spin and ply them in.  In this class we'll cover:</p> <ul style="list-style-type: none"> <li>• Choosing braids</li> <li>• How to set up an order to spin and ply</li> <li>• Keeping track of your spinning and plying</li> </ul> <p>We'll work with dyed braids, both patterned and semi solid, we'll even toss some naturals into the mix, just to see what happens. Spinning 2 and 3 ply yarns in succession will help you to create big beautiful projects from the many braids in your stash.  <b>Material fee:</b> \$15  <b>Level:</b> basic spinning skills  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• A wheel is good working order</li> <li>• A niddy noddy</li> <li>• At least four bobbins</li> <li>• Tags to mark samples</li> <li>• A lazy kate</li> <li>• Pen &amp; paper to take notes.</li> </ul>
<p><b>Knitting Happily Ever After – Ergonomics for Knitters</b></p>	<p><b>Carson Demers</b></p>	<p>Half- Day  <b>AM</b></p>	<p>Ever known a knitter who hasn't said, "Just one more row"? Me neither! I'll bet they've also complained of aches and pains while knitting. In this class, you'll learn how knitting affects the "fabric that makes the fabric"- your body – and see how your knitting technique impacts your efficiency and productivity. By completing a Risk of Injury assessment in class you'll learn how knitting contributes to those aches and pains throughout your body. But more importantly, you'll learn how to reduce them. A little knowledge and some simple changes can keep you knitting comfortably and safely ever after. Students who've taken this class have said that it should be "required learning for all knitters regardless of experience level!" and, "it's as important as the knit and purl stitches!" This class is taught by a passionate knitter who is also a physical therapist. This class is not an individual knitting assessment.  <b>Materials fees:</b> \$0  <b>Level:</b> Class is suitable for all levels of knitting experience.  <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• a knitting project of their choosing</li> <li>• materials to take notes if you wish to do so</li> <li>• a bath-sized towel (hotel is fine)</li> </ul>

**Retreat Day 5 – Saturday, March 31, 2018**

<b>Take the Mystery Out of The Box</b>	<b>Mary Egbert</b>	Half-Day  <b>AM</b>	<p>Have you ever gotten one of those mystery fiber boxes and it's a mystery to you how to spin all that fiber into a cohesive yarn? This class will teach you how to look at mismatched fibers and design a unique and beautiful yarn. You will study the color and texture of the fibers to help you with your decision making process. You will get insight on what the best spinning technique would be for your given mystery fibers. Be brave and think outside the box with this fun class! Each student will get their very own PLY Mystery Spinning Box.</p> <p><b>Materials fee:</b> \$25 each student will receive a Ply Mystery Spinning Box with at least 11 ounces of prepped and mysterious fiber.</p> <p><b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Wheel</li> <li>• 3 bobbins</li> <li>• Niddy noddy</li> <li>• Lazy kate or ball-winder (which ever you prefer for plying).</li> </ul>
<b>English Longdraw vs American Longdraw</b>	<b>Maggie Casey</b>	Half-Day  <b>AM</b>	<p>What is the difference between English longdraw (double drafting) and American longdraw? It depends. We will spin wool and cotton both ways and you can see the difference between the two techniques and add another drafting method to your spinning repertoire.</p> <p><b>Material fee</b> \$10 <b>Level:</b> Beginning spinning skills required.</p> <p><b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Spinning wheel and all its parts</li> </ul>
<b>Extraordinary Cloth: spinning unusual threads for weaving</b>	<b>Judith Mackenzie</b>	Half-Day  <b>AM</b>	<p>Handspinners have been making lovely yarns for weavers for at least 20,000 years and we still come up with new and exciting ways to create threads for cloth. In this seminar, we'll look at making interesting threads for both warp and weft. We'll learn a few tricks on how to sett unusual threads to their best advantage and how to support tender threads like cashmere and qiviut.</p> <p><b>Materials Fee:</b> \$15 <b>Level:</b> Must be able to make a continuous yarn; helpful if you know how to ply. Should have a good working relationship with your wheel.</p> <p><b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Wheel with all its parts</li> <li>• Notebook and a pen.</li> <li>• Enough bobbins to do a two ply</li> <li>• Any yarns or fabrics you may have questions about weaving with</li> </ul>

**Retreat Day 5 – Saturday, March 31, 2018**

<p><b>Spin and Nosh: Sheep Sampler: Down Breeds</b></p>	<p><b>Jillian Moreno</b></p>	<p>Half-Day  <b>PM</b></p>	<p>There are two things I love about sheep – their wool and their cheese! Come explore both in this spinning and snacking class. We'll sample five different commercially prepared fibers and fiber blends that might get overlooked, breeds that are considered down or down-like, like Southdown, Clun Forest, Oxford, and Tunis. We'll talk spinning how-tos, do you spin them woolen or worsted? How to spin them fine and how to spin them fat, and of course discuss beautiful things to make with them. I did mention sheep cheese right? In between spinning we will nibble several sheep cheeses. You'll learn about how sheep and cow milk cheese differ and what makes sheep cheese special. These will be different cheeses than we sampled last year. I think you will be happily surprised by the variety in flavor and texture of sheep cheeses and their tasty accompaniments. Yes, if you'd like to bring wine or beer to this class, you may. <b>Materials fee:</b> \$30 <b>Level:</b> basic spinning and eating skills <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• A wheel in good working order, or a spindle</li> <li>• A lazy kate</li> <li>• Three bobbins – or be happy w/ playback samples of yarns</li> <li>• A niddy noddy</li> <li>• Tags to mark samples</li> <li>• Pen and paper to take notes.</li> </ul>
<p><b>Locks in the Lens, Spindle in the Shutter</b></p>	<p><b>Bernadette Emerson</b></p>	<p>Half-Day  <b>PM</b></p>	<p>Fiber is gorgeous, yarn is luscious, spinning is interesting, so why doesn't that always come through in photos? This class will help you figure that out and move farther along the road to making your photos look as lovely as your fiber arts. In this hands-on half-day course taught by PLY Magazine's own photographer, you'll learn fundamentals of photography, setting up great shots, how to find and use your light, and more importantly, we'll practice shooting several staged set-ups and discuss how to make your photos pop. Whether you're simply sharing them on social media or taking photos for your indie business, this class will make your pictures more how you want them to be. Whether you're using a cell phone, a camera on auto-mode or manual, it's time to break to take some amazing fibery photos. <b>Materials fee:</b> \$5 <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• A camera of some kind.</li> </ul> <p><b>Optional:</b> yarns, fiber, or finished objects you'd like to photograph or have had trouble getting good pictures of.</p>
<p><b>Silk Fusion: making paper with silk!</b></p>	<p><b>Mary Egbert</b></p>	<p>Half-Day  <b>PM</b></p>	<p>Silk paper! Yes, that's right, learn how to make silk paper in this quick, fun class.. Starting with and studying at least 8 silk forms, we'll talk about how each will impact your final silk paper. Silk paper can be used as book covers, book pages, embellishments for quilting or felting, made into a vessel or even embellished with stitching for a small purse or clothing accents. Making silk paper is fun and at the end of these 3 hours, you'll love what you learned and what you created! <b>Materials fee:</b> \$20 <b>Students Should Bring:</b></p> <ul style="list-style-type: none"> <li>• Nothing, just your shining self</li> </ul>

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<b>Spinning Big and Lofty Yarns</b>	<b>Maggie Casey</b>	Half-Day  <b>PM</b>	Soft yarns, full of air, are a joy to knit and wear, but not so easy to spin. By tweaking our wheels and choosing the right fiber, we can create those big, light, and lofty yarns. <b>Material fee \$10</b> <b>Level:</b> Beginning spinning skills required <b>Students Should Bring:</b> <ul style="list-style-type: none"> <li>• Spinning wheel and all the parts</li> <li>• Especially large whorls</li> <li>• Lazy kate</li> <li>• 3 bobbins</li> </ul>
<b>Perfect Pairings</b>	<b>Judith Mackenzie</b>	Half-Day  <b>PM</b>	Just like a good wine deserves a good cheese, lovely fibers are often better than ever when paired together. In this class, you'll learn what makes a perfect combination and why and what makes an unfortunate combination and why. You will learn a wide variety of blending styles and design your own unique blend. We will work with yak, silk, fine merino, cotton, alpaca, and kid mohair, to mention a few. <b>Materials Fee: \$15</b> <b>Level:</b> Must be able to make a continuous yarn, helpful if you know how to ply. Should have a good working relationship with your wheel. <b>Students Should Bring:</b> <ul style="list-style-type: none"> <li>• a spinning wheel and all its parts</li> <li>• 3 bobbins</li> <li>• a lazy kate</li> <li>• range of knitting needles you like to work with</li> <li>• Also bring a set of handcards and a set of small combs if you have them</li> </ul>
<b>Awaq Sipas: Andean Backstrap Weaving For Young Adults of Any Age</b>	<b>Abby Franquemont</b>	Two day  <b>Day 2</b>	<i>See Description Day 1</i>