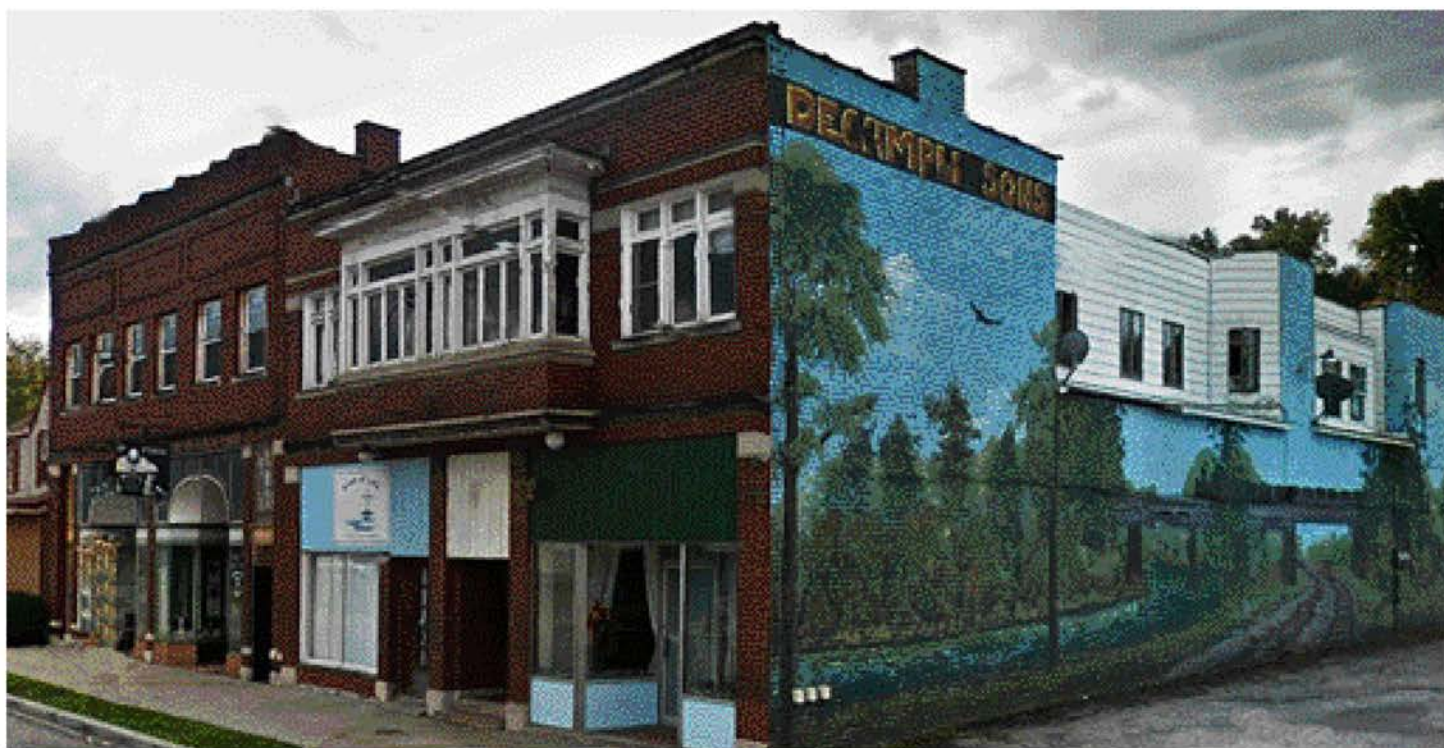




# CURRENT INFORMATION 2025

## LANDELL FLUTES LLC

• Repair & Restoration	2
• Custom Order Form	3
• Custom Options List	4
• Engraving Patterns	5
• Course Registration	6
• Course Descriptions	7
• Informative Poster	8
• Repair Work Order	9
• Trial Authorization	10
• Tools for Flute Repair	11
• “Array” of Embouchures	12
• Definitions and Terminolgy	13
• Heirloom Flutes for Sale	14



322 Main St. PO Box 528  
Wampum, PA 16157 USA

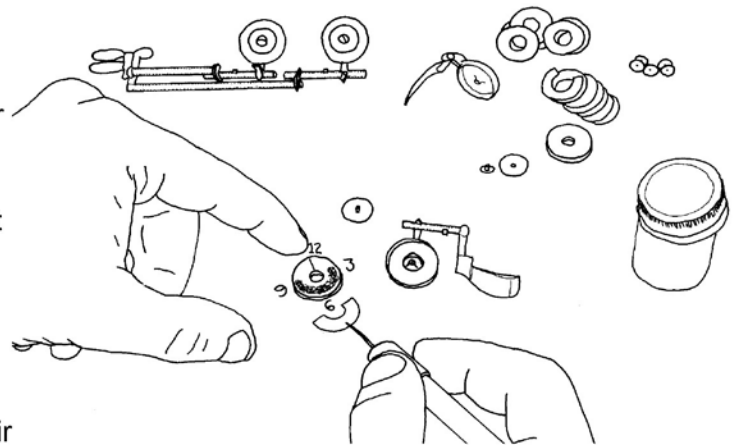
Information Is Subject to Change  
Phone/Message (724) 740-1093

email: [jonathon.landell@gmail.com](mailto:jonathon.landell@gmail.com)  
Website: [www.landellflutes.com](http://www.landellflutes.com)

# **FLUTE REPAIR & RESTORATION**

All flutes should be maintained at least once a year by a qualified repair technician to allow the players to perform at their highest potential. The pads often swell or shrink due to humidity or temperature, and sometimes the skins become torn and leak instead of closing perfectly air tight. The changes that happen over time are very difficult for the player to detect, because they happen very slowly and we can compensate for these problems sometimes by squeezing the keys. That extra finger pressure can hamper your ability to play smoothly and precisely at high speeds. It also can make the flute sound weaker and less resonant. The mechanism hinges need to have the oil changed every year to prevent the action from becoming slower and hesitant when returning to the open position.

Flute padding is a specialty that has seen many changes and innovations over the last few decades. There are just about as many patents pertaining to wind instrument pads as there are related to the design of wind instruments. Over the years we have experimented with many different pad designs, but our favorite pads are made by David Straubinger or Jim Schmidt. These pads are made with a synthetic felt that is perfectly flat and very stable in changing environments, so they are very stable over time without developing air leaks like the traditional pads made from pressed felt. The skins for Straubinger pads are the same bovine membrane used to make traditional felt pads, so they might tear after long and hard use. The Schmidt pads use Mylar for the skin, which has been coated with a very thin layer of gold on the surface that touches the tone holes. This Mylar skin will last for many years without tearing, and the metal surface of the skin gives the technician the ability to see the smallest air leaks by inserting a light source inside the flute body and closing the keys with minimal finger pressure to visually detect any problems with the pads' seals. We work with shims that are .0005" thick to eliminate the tiny air leaks in these Schmidt pads.

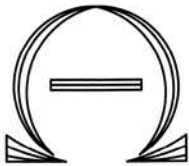


**Shimming a Pad from 3 - 9 O'Clock**

This precise padding technique requires the technician to prepare the tops of the tone holes to be made perfectly flat and level first. We hone each tone hole's top surface until there is no light underneath a perfectly flat gauge while looking at the contact area with a light inside the flute body. Such work takes a lot of time, but in the long run it makes the installation of the pads much easier, because there are very few small partial shims needed under the pads. Then, of course, that kind of work doesn't need to be done again and again. There is an audible improvement with either of these pads, which is best noted in fast scale passages or runs. The Schmidt pads may be slightly louder than the Straubingers when the pads are being closed, but the difference is only noticeable at close range (if at all). The most quiet pad is still the traditional felt pad, but the problems associated with slowly changing pad thicknesses over time make the new pad designs much more practical.

All of the common mechanical repair and restoration issues are handled at the time of a complete overhaul, when we stretch the key hinges that are worn and moving side-to-side, or the pivot screws need to extend further to remove wear. Sometimes, if any of the tone holes are leaking at the solder joints, they may need to be removed and resoldered. All this work and even more comes easily with a lifetime of experience and daily practice for a Master Flute Maker. Perhaps you could come here as an apprentice to train yourself for another generation of fine flute making and repair. If you have mechanical aptitude and lots of patience and if you can play the flute well, consider taking the classes that are offered here where we have already given hundreds of others like yourself the training they needed to aspire to this work. We are eagerly looking for young people who would invest in this opportunity, and then you could perhaps become apprenticed members of Landell Flutes LLC. -- Let's talk!





LANDELL FLUTES LLC, 322 Main St., PO Box 528, Wampum, PA 16157 USA

E-Mail: jonathon.landell@gmail.com

Phone: (724) 740-1093

## Custom Hand Crafted Flute Commission Form

\_\_\_\_\_  
Last Name First Name Home Phone

\_\_\_\_\_  
Street Address Cell Phone

\_\_\_\_\_  
City State ZIP Code Country

X

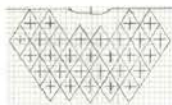
\_\_\_\_\_  
Signature E-Mail Address

☐ I hereby commission a new Landell Flute as described by the features on the list below.

☐ I understand that this is a legally binding contract between myself and Landell Flutes.



Flowers & Bow



"Perforated"

**Basic Price**

\$ \_\_\_\_\_

**Extra Cost Options:**

1- \_\_\_\_\_  
2- \_\_\_\_\_  
3- \_\_\_\_\_

**Lip Plate Engraving**



Grape  
Vine



Laurel  
Wreath

**TOTAL COMMISSION**

\$ \_\_\_\_\_

**Please Call for Current Prices**

**SPECIFICATIONS**

**Pitch:** ☐ A= 440 ☐ A = 442 ☐ A = 444 ☐ A = 446 ☐ Other \_\_\_\_\_

**Body:** ☐ Silver ☐ Argentium Silver ☐ 10K Gold ☐ 14K Gold ☐ Other \_\_\_\_\_

**Keywork:** ☐ Silver ☐ Argentium Silver ☐ 10K Gold ☐ 14K Gold ☐ Other \_\_\_\_\_

**Tubing:** ☐ .012" (Gold) ☐ .014" ☐ .016" ☐ .018" ☐ Other \_\_\_\_\_

**Foot Joint:** ☐ C Foot Joint ☐ B Foot Joint ☐ Convertible B/C ☐ D Foot

**G Keys:** ☐ In Line G ☐ Offset G ☐ Split E ☐ Split G ☐ Donut in G

**Key Style:** ☐ French ☐ Covered Key **Gizmo:** ☐ With Gizmo ☐ Without a Gizmo

**Head Cut:** ☐ Modern ☐ Traditional **Case:** ☐ Hardwood ☐ Leather

**Pads:** ☐ Modern ☐ Traditional **Case Cover:** ☐ Leather ☐ Nylon

**EXTRA COST:** ☐ D# Roller ☐ C# Trill Key ☐ Split E Key ☐ Left Hand Lever ☐  
☐ 14K Gold Emb. ☐ 10K Gold Emb. ☐ Gold Ring ☐ Platinum Ring ☐ Emb. Engraving

**Engraving:** ☐ 6 Flowers & Bow ☐ Perforated ☐ Grape Vine ☐ Laurel Wreath ☐ Other:

## Unique Features of the Landell Flute

- 1 “Gold Ring” Riser Head Joint
- 2 Alpha-Omega Logo
- 3 Argentium™ Silver – Will Not Tarnish
- 4 Ball Bearings
- 5 Captive Pad Screws
- 6 Certified Straubinger, Schmidt, and Muramatsu Pads
- 7 Clutches – Not Adjusting Screws
- 8 Cooper/Bennett Scales
- 9 Crown Made with Air Tight Seal
- 10 Custom Made -- “One Man, One Flute”
- 11 Domed Pad Washers (Optional)
- 12 Double Axel Thumb Keys
- 13 Hand Engraved by Mr. Landell
- 14 Hardwood Fitted Case
- 15 Head Joint Stopper O Ring – Not Cork
- 16 Head Joint “Array” with 16 ‘Cuts’ to Choose From
- 17 Head Stopper with Setting Stopper in the Crown
- 18 Kicker **Corks** – not Felt
- 19 Never Plated – Only Solid Silver or Gold
- 20 All Soldered Tone Holes – NOT Drawn
- 21 Optional One Piece Body and Foot
- 22 Pinned Key System by Boehm – Not “Pinless”
- 23 Tapered Pivot Screws with Heads - NOT Cylindrical
- 24 Plastic Pad Shims – NOT Paper Which Change in Thickness Over Time
- 25 Pointed Arms “French” Style
- 26 Screwdriver Slots with a Radius - Self Centering
- 27 Stainless Steel Axels – Won’t Rust
- 28 Technical Training for Flute Workers
- 29 Titanium Body Tube/with Silver Keys
- 30 Delrin French Bushing and Pad Washers with Air Tight Washers

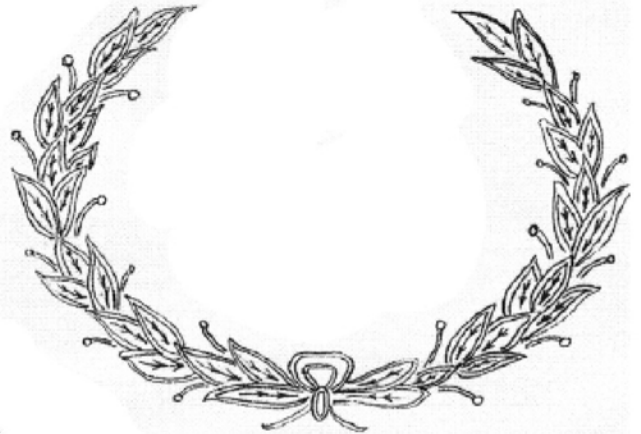
Please inquire by email or phone for more detailed information. These are standard and optional features of every handmade Landell flute.



## Hand Engraving Patterns



Grape Vine



Laurel Wreath



Panino



Crown End Engraving



Pan Flutist



Six Flowers & Bow



Pappoutsakis Competition



(Revised) **Registration Form - 2025**  
**Please fill out and mail, email in Advance**

**PLEASE!**

**PRINT CLEARLY & DARKLY**

My E-Mail Address \_\_\_\_\_ @ \_\_\_\_\_  
Last Name \_\_\_\_\_ First Name \_\_\_\_\_ Home Phone \_\_\_\_\_  
Street Address \_\_\_\_\_ Cell Phone \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ ZIP or Postal Code \_\_\_\_\_ COUNTRY \_\_\_\_\_

Please **Circle** Dates Preferred

**2025**

	<u>Tuition + Materials</u>	<u>Winter</u>	<u>Spring</u>	<u>Summer I</u>	<u>Summer II</u>	<u>Fall I</u>	<u>Fall II</u>
<input type="checkbox"/> Flute Tune-Up (print date) \$ 600		____/____	____/____	____/____	____/____	____/____	____/____
<input type="checkbox"/> Padding Techniques \$ 2,000		2/3 - 2/7	4/7 - 4/11	6/2 - 6/6	7/7 - 7/11	8/18 - 8/22	-
<input type="checkbox"/> Overhaul Techniques \$ 2,000		2/10 - 2/14	4/14 - 4/18	6/9 - 6/13	7/14 - 7/18	8/25 - 8/29	-
<input type="checkbox"/> Build Your Own Head! \$ 3,000		2/17 - 2/21	4/28 - 5/2	-	7/28 - 8/1	9/1 - 9/5	-
<input type="checkbox"/> Advanced Padding Tech. \$ 3,000		-	4/21 - 4/25	6/16 - 6/20	7/21 - 7/25		11/3 - 11/7
<input type="checkbox"/> Build Your Own Flute! \$ 24,000		-	-	-	-	9/22 - 10/31	-

**2026**

Dates are subject to change.  
Call/email for latest info.

	<u>Winter</u>	<u>Spring</u>	<u>Summer I</u>	<u>Summer II</u>	<u>Fall I</u>	<u>Fall II</u>
<input type="checkbox"/> Flute Tune-Up (print dates) \$ 600	____/____	____/____	____/____	____/____	____/____	____/____
<input type="checkbox"/> Padding Techniques \$ 2,000	2/2 - 2/6	4/6 - 4/10	6/1 - 6/5	7/6 - 7/10	8/17 - 8/21	--
<input type="checkbox"/> Overhaul Techniques \$ 2,000	2/9 - 2/13	4/13 - 4/17	6/8 - 6/12	7/13 - 7/17	8/24 - 8/28	--
<input type="checkbox"/> Advanced Padding Tech. \$ 3,000	2/16 - 2/20	4/20 - 4/24	6/15 - 6/19	7/20 - 7/24	8/31 - 9/4	
<input type="checkbox"/> Build Your Own Head! \$ 3,000	2/23 - 2/27	4/27 - 5/4	6/22 - 6/26	--	--	
<input type="checkbox"/> Build Your Own Flute! \$24,000	--	--	--	--	9/7 - 10/16	

☐ I will have a \_\_\_\_\_ Project Flute **-OR-** ☐ would like to use a project flute provided for me (\$100).

**CHECK: The Fine Print Part**

☐ I am including a Material Deposit of \$500 with this Registration for each week I have registered. I understand that this deposit is **non-refundable** if I cannot attend during the week(s) for which I have registered. My deposit could be applied to future dates. **Note: The Build Your Own Flute! class Material Deposit is \$6,000 due at least 3 months in advance.**

☐ I understand and agree that reservations for the courses should be made **two months in advance**. Because class size is limited, some courses will fill up quickly and others could be smaller. (I will call to check for last minute availability.) Tuition for private training will be 50% more than for scheduled classes. Call for other personal arrangements.

☐ I fully understand and agree that if I am unable to attend the class for personal reasons or if Mr. Landell finds that I am unsuitable to the work for any reason, I could request a tuition refund pro-rated at \$200 per day for each full day that I missed.

☐ I agree to send **PAYMENT IN FULL ONE MONTH BEFORE THE CLASS IS SCHEDULED TO BEGIN.**

☐ I agree to hold harmless Mr. Landell, Landell Flutes, and other principals for any personal injury to myself or my property during these courses. I agree (in advance) to waive any rights of personal or property damage pursuant to these courses.

☐ Yes, I understand that I am signing a **legally binding contract** with Landell Flute LLC for training at the Landell studio-workshop for the dates I have chosen under these terms and conditions.

**X**

Signature

**-6-**

Date

## MASTER CLASS DESCRIPTIONS 2025

### 1 The Flute Tune-Up

The wonderful and simple mechanism of the flute can be successfully maintained by any student. This short course brings the simplicity of the flute into the hands of the student through a series of skill-building steps. Using the **Landell Flute Tune-Up Manual** as a text, each student will be personally guided through the disassembly and reassembly procedure, learning the proper oiling techniques, and acquiring skills in the use of the tools. People of all ages have experienced the satisfaction of knowing their flute on the mechanical level and the confidence derived from cleaning and oiling it properly themselves.

**Satrdays by Appointment** 6 - 8 Hour Tuition \$ 400-  
Book and Tools 200-

### 2 Padding Techniques



The next logical step in maintaining your own flute is to acquire the skill of pad installation and leveling. Class begins with **The Flute Tune-Up** on the first day. Students then learn how to install and level pads by applying the same techniques practiced by the most highly qualified technicians. This course covers all the important skills needed to replace the

corks, felts, and connections, and to make the final adjustments. Students should bring their own flute to pad during this course. Tuition price includes a Tune-Up Tool Kit, a Pin Driver and a Manual.

**Five Day Tuition** \$1,500-  
**Books and Materials** 500-

### 3 Overhaul Techniques

This course is designed especially for students who want to know how to overhaul and restore the flute in preparation for working as a professional flute repair technician. Many of the skills needed to overhaul fine flutes will be covered including removing dents and scratches, stretching worn keys, repairing solder joints on soldered tone holes, polishing and cleaning the flute, re-pinning, replacing broken springs, etc. Time will be devoted to techniques of making special tools, operating the lathe and other machines, hardening steels, and important machine shop tips.

**Prerequisites:** Students must attend the Padding Class prior to attending the Overhaul Class. The head joint is comprised of only three parts: the lip plate, the riser and the tube. It is the logical place to begin to learn how to make a flute. During this course, each student will make a flute head joint from beginning to end and learn most of the skills needed to make a flute, basic tool making, and lathe operation.

**Five Day Tuition** \$ 1,500-  
**Books & Materials** 500-

### 4 Advanced Padding Techniques

After a few years experience padding flutes with conventional felt pads, many repair technicians will need to learn how to install the high tech pads that have been developed and patented recently by well known makers. The high demand for this training has caused a waiting list for technical training using synthetic modern pads making it difficult to learn about them. More and more flutes are circulating with these high tech synthetic materials, so many customers need qualified repairers who know how to use them properly. The advantages of the modern pad design give the flute longer lasting stability and better air sealing properties. Measurement tools are now made to determine just how 'tight' the pads are actually sealing, so the repairer can show the customer how much better these pads are sealing if they really want to know. Tone holes must be perfectly 'level' on top, and there are significant differences between these various pads. We will work with Straubinger, Schmidt and Muramatsu "Lotus" pads if possible. Call for making arrangements. Experienced students are encouraged to come for this class.

**Five Day Tuition** \$ 1,500-  
**Books & Materials** 1,500-

### 5 Build Your Own Head!

The head joint is comprised of only three parts: the lip plate, the riser and the tube. During this course, each student will make a flute head joint from beginning to end and learn most of the skills needed to make a flute, including filing, sanding, scraping, burnishing, silver and lead soldering, polishing, cleaning, basic tool making, and lathe operation. The important design characteristics of the head joint will be discussed, and students will leave with a hand made silver head joint for his/her own flute.

**Five Day Tuition** \$ 1,400-  
**Books & Materials** 1,600-

### 6 Build Your Own Flute!

Students who would like to learn about the flute building trade will want this complete class. The course will begin with a body kit and all the parts necessary to build the keys. The course ends at the point where the flute is ready for spring and pads. Naturally the finished flute becomes the personal property of the student! The following list of skill will be overed during the course: soldering and brazing, filing, grinding, scraping, burnishing, fitting and assembling keys, pinning, etc. A booklet containing the important course notes is provided for each student. All necessary tools will be provided for use during the course and may be purchased at the end.

**Six Week Course Tuition** \$ 8,000-  
**Books and Materials** 16,000-



# **PLEASE POST**

## **WORK BENCH TRAINING FOR FLUTE WORKERS**

# **Landell Flutes**

Jonathon A. Landell, Master Flute Maker



**Padding Techniques  
Advanced Padding Tech.  
Overhaul Techniques  
Build Your Own Head!  
Build Your Own Flute!\***



## **SMALL CLASS SIZE**

## **ONE WEEK COURSES**

Each Class Runs 10 am - 6 pm Monday - Friday

One Day **"Tune-Up"** Classes Are Scheduled on Saturdays by Availability

Landell Flutes Studio/Workshop

322 Main St., P.O. Box 528, Wampum, PA 16157

Email [jonathon.landell@gmail.com](mailto:jonathon.landell@gmail.com)

**Call (724) 740-1093**

## **2025 DATES**

Dates are subject to change. Check the web site for current information.

*Registration Forms and Material Deposits Due 1 Month Before Class*

*One-on-one Private Training Sessions Can Be Arranged By Appointment*

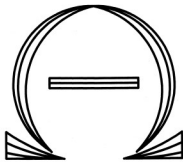
*One-on-one requires additional 50% tuition fees. Please call for information.*

**Send the Reservation Form to Reserve Your Bench Today!**

	<u>Tuition + Materials</u>	<u>Winter</u>	<u>Spring</u>	<u>Summer I</u>	<u>Summer II</u>	<u>Fall</u>	
Padding Techniques	\$ 2,000	2/3 - 2/7	4/7 - 4/11	6/2 - 6/6	7/7 - 7/11	8/18 - 8/22	-
Overhaul Techniques	\$ 2,000	2/10 - 2/14	4/14 - 4/18	6/9 - 6/13	7/14 - 7/18	8/25 - 8/29	-
Build Your Own Head!	\$ 3,000	2/17 - 2/21	4/28 - 5/2	-	7/28 - 8/1	9/1 - 9/5	-
Advanced Padding Tech.	\$ 3,000	-	4/21 - 4/25	6/16 - 6/20	7/21 - 7/25	-	11/3 - 11/7
Build Your Own Flute!	\$ 24,000	-	-	-	-	9/22 - 10/31	-

Go to [www.landellflutes.com](http://www.landellflutes.com) and download the "Current Information" for Registration Form and details.

Call directly for the latest plans and availability. \*Build Your Own Flute runs for 6 consecutive weeks.



LANDELL FLUTES LLC 322 Main St., Wampum, PA 16157 Phone: (724) 740-1093

Please fill out this form and include it in the case for any flute repair orders.

## REPAIR WORK ORDER 2025

Name \_\_\_\_\_ Date \_\_\_\_\_  
Address \_\_\_\_\_ Maker \_\_\_\_\_  
City \_\_\_\_\_ S/N \_\_\_\_\_  
STATE ZIP  
Email \_\_\_\_\_ Phone \_\_\_\_\_

### WORK DETAILS

☐ WORKING ORDER ☐ CLEAN, OIL ADJUST ☐ REPAD ☐ OVERHAUL ☐ SPECIFIC JOB

### I PREFER SHIPPING

☐ UPS ☐ FEDERAL EXPRESS ☐ REGISTERED MAIL ☐ NEXT DAY ☐ GROUND SERVICE

HOURS: \_\_\_\_\_ PER HOUR: \_\_\_\_\_ PROMISED: \_\_\_\_\_  
QUOTED PRICE: \_\_\_\_\_  
EXTRA WORK: \_\_\_\_\_  
SHIPPING: \_\_\_\_\_  
TOTAL \$ \_\_\_\_\_ \$ \_\_\_\_\_ X \_\_\_\_\_  
MIN. MAX. SIGNATURE

### NORMAL REPAIR COSTS

	MECHANICAL	MACHINE POLISH	NEW PADS	SET-UP	Cost
Complete Overhaul	✓	✓	✓	✓	\$ 1,300
Recon		✓	✓	✓	\$ 900
Repad			✓	✓	\$ 800
Clean, Oil, and Adjust (C.O.A.)				✓	\$ 295

C.O.A. INCLUDES tighten tenons, clean and oil mechanism, ultrasonic clean body, adjust as needed to play well.

"MECHANICAL" Tighten wear points, remove dents and scratches, repair/replace hardware as needed. Parts are extra.

"MACHINE POLISH" includes using buffing machine with rouge and tripoli, ultrasonic cleaner, tarnish preventative.

"NEW PADS" choice of felt, Straubinger, or Schmidt pads, installed with foundation washers and with honed tone holes.

"SET-UP" includes adjustments for connections and pad openings, spring tension, corks, and felts as needed.

"COMPLETE OVERHAUL" includes all the above within the normal scope of work. Unusual damage will be repaired to as-new condition at hourly rate + materials. Quotes will include high and low estimate and not-to-exceed costs.

Above Work Order must be signed by the owner before any work is done. Estimates are free of charge.

#### À LA CARTE

New Pads Install. (COA) \$ 25 each  
Head Cork 25  
New Pins (each pin) 25  
Silver Plating Service 195

#### DECLARED VALUE FOR SHIPPING \$ \_\_\_\_\_

☐ I have my own shipping insurance. Don't insure it.  
☐ I do NOT have my own insurance. Please insure it.  
☐ Please bill me for shipping and insurance.

# TRIAL AUTHORIZATION -- FLUTES OR HEAD JOINTS

\_\_\_\_\_  
Date

\_\_\_\_\_  
Due by

\_\_\_\_\_  
Borrower's Name

\_\_\_\_\_  
Cell Phone

\_\_\_\_\_  
Mailing Address

\_\_\_\_\_  
Home Phone

\_\_\_\_\_  
City or Town, STATE

\_\_\_\_\_  
ZIP

\_\_\_\_\_  
Email Address



I hereby authorize Jonathon Landell to authorize only (without charging my Visa or Master Card) the full amount of the value of the flute(s) and/or head joints in the amount of \$\_\_\_\_\_ for security during the time I have them for trial purposes. I will also request my insurance company to cover the value.

\_\_\_\_\_  
Card Number

\_\_\_\_\_  
Expiration

\_\_\_\_\_  
Security Code

\$ \_\_\_\_\_  
Amount USD Authorized

I understand that this trial is offered to me for the purpose of play-testing a flute and/or head joint, and that I am under no obligation to purchase. I acknowledge that if the listed instruments are not returned in like new condition at the end of the trial period, I will be responsible to pay for repairs or for the replacement in case of theft. In the event of loss or damage, I authorize Landell Flute to charge the above account.

Card Holder Signature: X \_\_\_\_\_ Date: \_\_\_\_\_

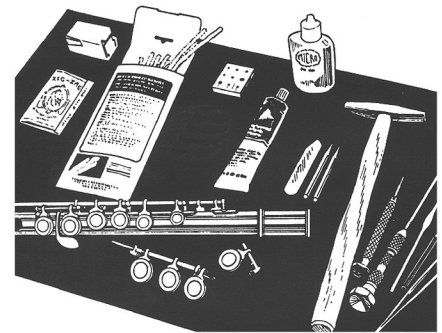
Jonathon A. Landell  
Landell Flutes  
322 Main St.  
Wampum, PA 16157 USA  
Email: jonathon.landell@gmail.com  
Phone: 724-740-1093



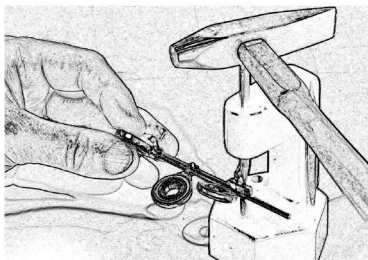
# TOOLS AND COURSE NOTES FOR FLUTE CLASSES

## Tune-Up Tool Kit & Pin Driver

Tools supplied with the Tune-Up Class and Padding Tech. class includes everything you'll need to do a C.O.A. but doesn't include the Aluminum pin driver set needed to take out all the pins properly. Tools included with the class are Reversible Blade Screwdriver, Long Blade Screwdriver, Spring Hook, Wood Screw Block, Tune-Up Oil, Tweezers with Lock, Pin Vice & Needle, Pad Slick Landell, Cigarette Paper, Pipe Cleaners, Single Edge Razor Blades, Barge Contact Cement, Work Surface Cover, Pad Ironing Tool, Pad Clips, Cork Grease, and Head Cork



**Tune-Up Tool Kit \$400.-**



**Aluminum Pinning Set \$250**

Removing pins is always a challenge for flute repairers, because the pins are often installed with too much force and removing them can leave marks in the keys. This Pinning Set includes several different hardened pin drivers which are made to self center in the top of the pins. One driver is larger for pushing pins that have the ends protruding out, and the other is small enough to drive the bottom end of the pin into the key if it's been ground off flush with the key. There are several brass Posts that support the key during this process, which have lead in the top to support the key without marking it.

## Tools for Padding Tech. Class

- 227 Stick Shellac
- 232 Head Joint Cork (no hole)
- 233 Head Cork with Hole
- 234 Felt Thick and Thin
- 235 Alcohol Lamp, glass
- 237 Pliers, Curved End
- 238 Pliers, Vice Grip
- 244 Matches
- 245 Opti-Visor
- 247 Needles for Making Pins (doz.)
- 249 Grobet 6" Hand Files-Tone Holes (2)
- 250 Padding Techniques Notes
- 252 Pad Opening Gauge

More Tools For Sale. Please ask for current prices.

## More Tools à la Carte

Come for the classes first and decide what tools you'll need while you're here. We'll provide the basic tools and supplies for the class experience, and you'll receive the Course Notes and all these tools with the class while you're here. If you just want to buy the Course Notes, you may deduct the amount you pre-paid when you make a reservation for a class from the schedule. You can also buy the tool kit now and get started on your own. Bring them to the class.

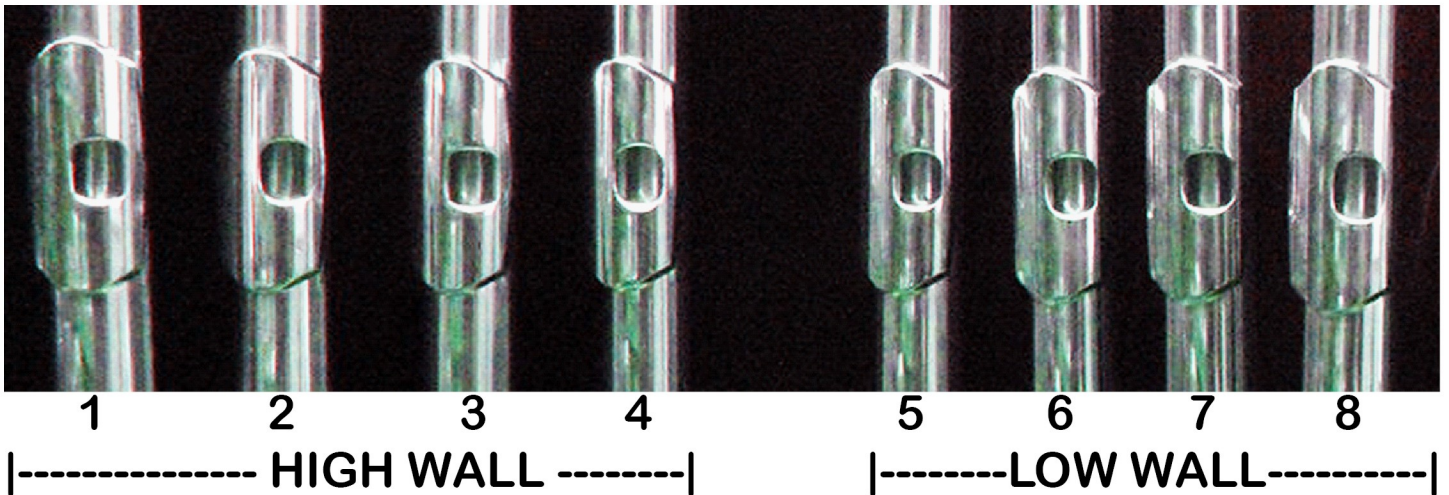
## Tools for Overhaul & Mechanical Class

- 249 Lutz File Handles (2)
- 351 Scraper 5/32 Drill Blank
- 352 Burnisher Blank OHDR 3/16 x 2
- 353 Head Cork Setting Dowel - Unfinished
- 354 WHDR .0935 x 9 Reamer (2)
- 355 Swedging Pliers Chain Nose
- 356 Brass Hex Tamper 1/2 x 2
- 357 Space Block .0625
- 358 File - Half Round #6 Needle
- 359 Counterbore 3/16
- 360 Hex Wrench .048
- 361 India Stone FF-146
- 362 Wood Handles (2)
- 363 Sandpaper Samples
- 364 Washout Brush
- 365 Drill #71
- 366 File Blank 6" for Burnisher
- 375 Drawer Organizer Box 15 x 6 x 2

## Course Notes

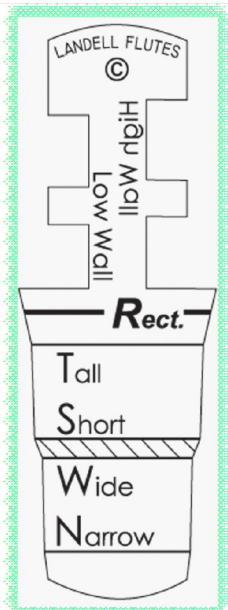
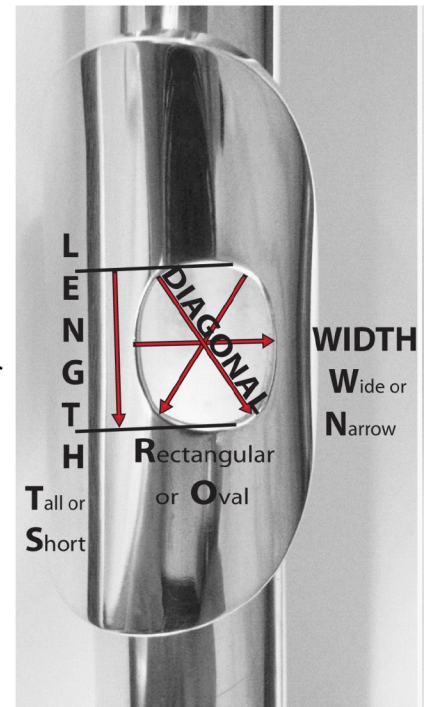
- |     |  |              |
|-----|--|--------------|
| 125 | <b>Fine Flute Repairing (Tune-Up)</b>            | <b>175.-</b> |
| 200 | <b>Padding Tech. Course Notes</b>                | <b>200.-</b> |
| 300 | <b>Overhaul &amp; Mechanical Tech. Notes</b>     | <b>200.-</b> |
| 400 | <b>Advanced Padding Tech. Notes</b>              | <b>250.-</b> |
| 500 | <b>Build Your Own Head! Course Notes</b>         | <b>300.-</b> |
| 600 | <b>Build Your Own Flute! - Not Yet Available</b> |              |

# Rectangular Cut



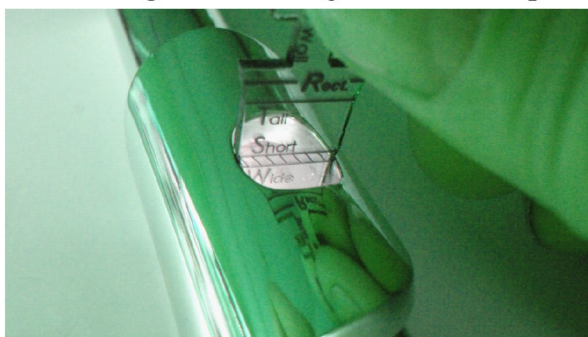
## ARRAY of Head Joint Embouchure Cuts

We have a unique selection of sixteen head joints that have been carefully cut for the purpose of determining the best size and shape for *your* flute's embouchure hole. As you grow and mature as a player, your head joint needs may change. Rather than using the one-size-fits-all approach to embouchure hole design, Mr. Landell uses this collection that he calls an "ARRAY" of heads as a tool for the players. By playing a variety of flute repertoire on the Array, each player can decide which cut works best for their present skills and abilities. Mr. Landell will make them a new head with exactly those specifications and fit it to their preferred instrument. This head joint 'audition' can be done at the Landell's home near Wampum, where we have a Steinway grand piano and a large open room with good acoustics. Our Array of head joints and a test flute are made with the new Argentium Silver alloy, which is tarnish resistant. Other choices of precious metals are also possible.

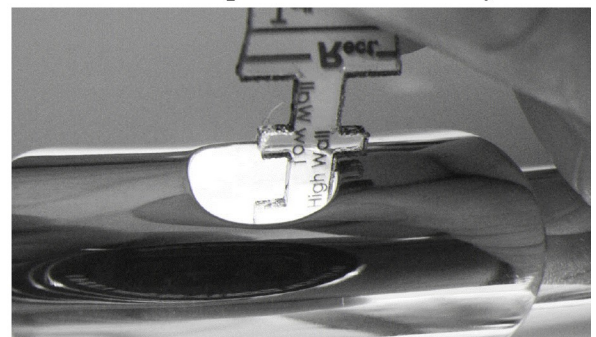


Measurement  
Gauge  
\$50.-

This **Gauge** is used to get the four important dimensional specifications for any head.



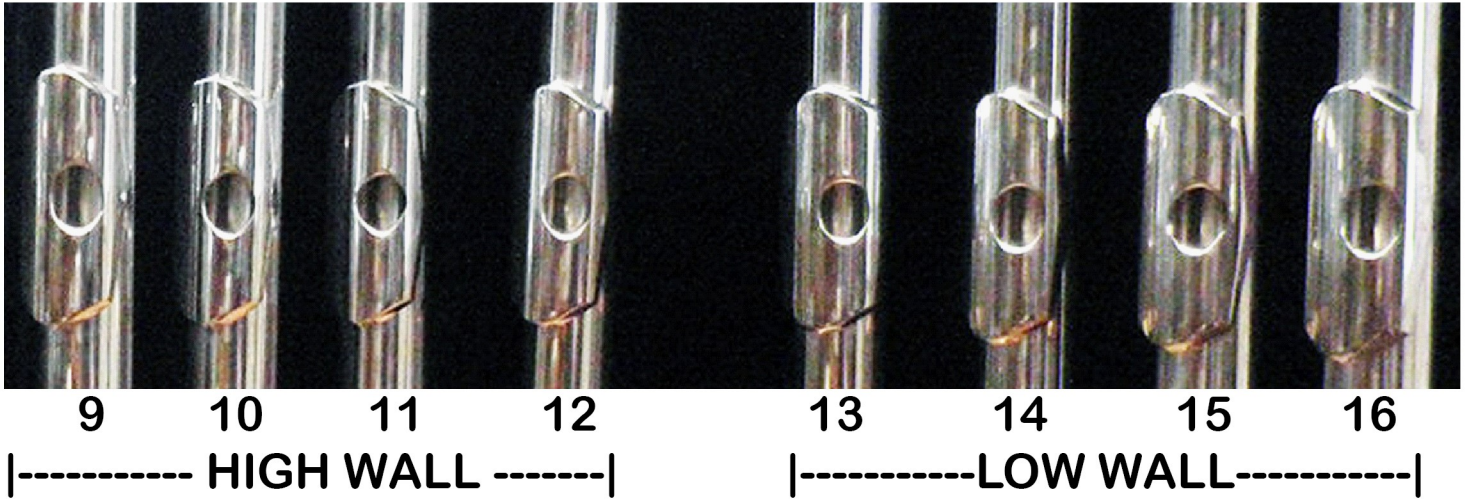
Measure Width  
Wide - Narrow



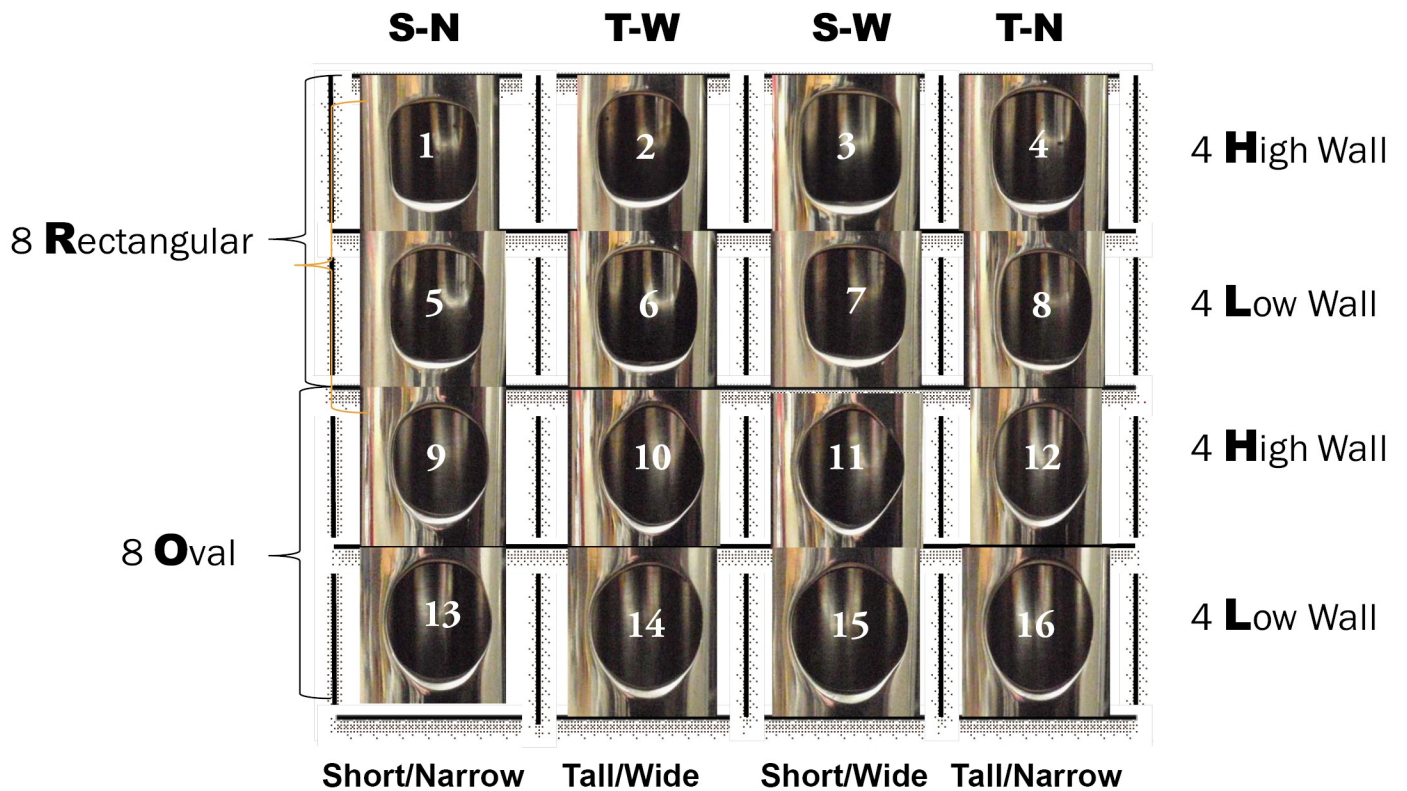
Measure Height  
High - Low



# Oval Cut



## THE “ARRAY” *CLOSE-UP*



High Wall = .205"

Low Wall = .185



## HEIRLOOM LANDELL FLUTES FOR SALE



**Serial Number 28: 14k Gold Tube, Silver Keys, B foot, Engraved Lip Plate, A=442, In-Line G, 1998**  
**\$ 23,000 USD**



**Serial Number 182: All Argentium Silver, B Foot, D# Roller & Gizmo, C# Trill, A=440, In-Line G, 2010**  
**\$ 15,800 USD**



**Serial Number 11: All Sterling Silver, B Foot, D# Roller & Gizmo, A=442, Offset G, Traditional Head, 1974**  
**\$14,000 USD**



**Serial Number 174: All Sterling Silver, B Foot, D# Roller, Gizmo, A=442, In-Line G, C# Trill, 2002,**  
**\$15,000 USD**