## Mastering Paragliding

## Book Review by Josh Cohn

n Kelly Farina's new book,
Mastering Paragliding, he presents the methods one needs to
employ to improve paragliding XC
performance in a more attractive and
well-structured manner than I've seen
before.

The book it most resembles is Bruce Goldsmith's 50 Ways to Fly Better. Both books share Cross Country Magazine's editorial polish, typeface, and even some of its content.

Mastering Paragliding follows the order of a good XC tour, starting with foundational skills like launching, how to hold the brakes, etc. Kelly has coined "catchy" terms for his ideas, some of which sound familiar, probably from my having read his writing in XCMag over the years. I sometimes bridle a little at yet another neologism, but I remind myself that the target audience will probably find them

memorable and useful.

Here's a glossary of some terms used in the book that were semi-new to me:

**CARVING:** turning smoothly, with no wasted energy

**BRIDGE PRINCIPLE:** using a ridge-soarable spine connected to higher mountains above the valley wind to complete a transition after getting stuck in valley wind, instead of diving into a sunny lee

**MAGNET EFFECT:** the tendency of air to be entrained toward a rising thermal

**FLOW OF THE DAY:** planning an XC in the mountains to minimize flying against a valley wind and maximize time over sunny faces

**FIZZY:** unstable conditions **STICKY:** stable conditions

There is also an extensive glossary in the back, containing a few wry entries such as "Fun: Keep it in mind" and

ARVING: turning smoothly, with no

The target audience for this book is likely similar to that for Alpine XC Tours: intermediate pilots getting started in XC and more experienced pilots new to the Alps.

"Confidence: important to have."

"THESE TECHNIQUES AND CONCEPTS WILL
HELP ANY PILOT FLY BETTER"
Stephan Stiegler
Former World Champion

MASTERING

PARAGLIDING

Another book that has some overlap in subject matter, *Thermal Flying*, by Burkhard Martens, has a drier, more technical approach and less editorial and design polish. (I didn't notice the rudimentary design of this book until I held it next to Farina's. At that time it became clear that *Mastering Paragliding* is much easier on the eye. It avoids losing readers by not including any equations.)

However, the repetition that occurs over the course of this book will likely suit many pilots' learning style.

Early on, we are introduced to the 4-for-90 rule, stating that each 90 degrees of a thermal turn should be completed in four seconds. This is genius and corrects the most common error seen in the flying of beginner/intermediate thermal pilots. 90% of the comments made in thermal and XC clinics seem to be "Turn tighter!"

The "Dynamics of Lee" section should be required reading for all pilots considering flying XC or transitioning from the flatlands to the mountains. It describes how leeside thermals



Modern wing vs endent rock, Delerrites

## THE GOAL IS THE JOURNEY AS A WHOLE

WELCOME to Matering Pungding. In Mook it designed to help you make clear and faster progression through our sport a cert ystage of your flying career, whetheyou're making your first shoot hopsor chairs allow fire the well purus concept that will allow fire-thinking ploy in the XG leagues. In it well purus concept that will allow fire-thinking paid to caff a style true to the finalment of efficient soating flight. Well go from pairs with physics while caving deen line for some the sky, to eventually covering incredible distances by following nature from:

Techniques and style differ from pilot to pilot, but some principles bind all competent XC. Byen together. Those principles are stgusbly set in stone. The end result is greater efficiency, which is essential for anyone truly interested in travelling using only the sun as their fact.

In our sport it doesn't really matter how

In our sport it doesn't really matter how goed you are - it's about having fun and getting away from our normal lives. But it can't hart to understand what we do better, so we can enjoy long and challenging thredimensional chest games with nature, or short but revert session after work on a lecal lill. The main thing is that it's safe and we're having fun.

In these pages we'll discuss when to call it a day in the face of cloud development, and why the same pilots climb out time after time, making it look ridiculously easy. We'll learn how to caver the sky and centre on the oure like never before, to take the lusk away from deciding where to search for the next moonbeam ride. We'll talk about planning

and executing routes around complex valley systems, and adapting lines to coincide with changing conditions. We'll understand how to read the sky, maximize the sky or even best fellow competents over the finish line. This is no 'how to' manual, but more a rough guide to a logical path of progression. Crawl before you walk, walk before you

The road to progress
When we're signed off by our instructor
we have the minimum basic skills. We ca

most likely do simple assessments of si and weather. We should be able to laune and land independently, causing minimus discuption to those shazing the sky aroun us. But we possess few of the tools needed to be skilled, well-rounded pilots... If our skill-set is a toolbox, the beginn

is armed with little more than a monkey wench. But sometimes, in strong, surbulent skies, we may need a hammer. Quick, precise reactions and timing are required, but nerves play a part here, too. At other times we may need a watchmaker! screwdriver, for the light, assible technical days when technique is everything. Which tool we need depends entirely on Which tool we need depends entirely on

which took we need depends entirely of the conditions. Having only heavy tool when subtlety is required will see pilots lan frustratingly early, wondering how other are even staying up. Pilots should have toolbox full of well-practised techniques Softer skills are much more technical an





carry the turbulence of their source air with them, as well as addressing the times when wind speed becomes an issue.

The sidebar endorsements sprinkled throughout, from top competition and XC pilots Russ Ogden, Thomas Walder, Debu Choudhury and Stephan Stiegler convey the impression that the book's advice has been well vetted.

Case studies on dramatic cloud incidents give a balanced view of the danger of unstable conditions going from good, to great, to "uh-oh." Pilots

shouldn't fly mid-day on days with significant development, without absorbing these lessons.

One short section of the book contains an idea I am unsure about. It's called "the pressure drop effect" and describes a situation during which large clouds are seen over high peaks 25km away, suddenly followed by stable, blue conditions in the foothills giving way to lifty conditions with cumulus clouds popping. The suggestion is that the distant cu-nim is causing a sudden drop in pressure locally. Even after some very pleasant correspon-

dence with the author, I can't visualize the causality working this way.

I don't doubt that the observations are accurate and have been seen multiple times, but just wonder about the interpretation. Another possible explanation is that both the distant cu-nims and the local change in stability are caused by the same thing: a synoptic-scale change in pressure. The advice to not panic is good, no matter what the ultimate cause.

The last section contains case studies of Zillertal, Austria, and Val di Fassa in the Dolomites. Pilots visiting these sites have ample reason to pick up the book, just for the in-depth description of the local valley systems and routes. The photo/diagrams show clearly many places of interest, alphabetically from A through O for the Zillertal, listing every rotor zone, soarable face, and protected lee.

I wish I'd had this book when I'd started flying XC, especially when I first flew in the Alps. I could have avoided learning some of the lessons the hard way, and probably would have had better, safer flights sooner.

**BELOW** Author Kelly Farina.



Has we have examples of all four faces: B is a bridge, the valley wind hist the hill and is forced up the face. This is a good place to soon. The faces if are flushed by the valley wind. It is an area of leaded nater to steer clear all but P is protected, away from the area of roter, and sur-marmed so could offer a leaded thermal.

magnets that can draw large quantities of hot air up from the valley floor. Recognising where this drifting, meandering flow may be triggered will help immensely when stuck on a face like this.

Last and by no meant least is the worst case somerie. Certain rares should be somerie. Certain rares should be some life. When the last the plage in winds over 15-20km/h. These areas are where the flow has been forced over or second sementhing, and it now tumbling and creating. These roceic results are responsible for most incidents in the Alps. They need to be recognised and worked Such fines can produce twisted climbs that stay visited through the air's heavy inertia to cloudhase and beyond

Principle. If a pilot enters the Inflamence of Ith valley flow and finds that the word as less that the raids trigger speed of 158m/th, there have the raids trigger speed of 158m/th, there haveys the option to go light lessed as at heart move. But, if the same pilot decides to take the climbo not be sunny safe of a five of the control of the second of the control of the control

Another upside of this theory enables us to bounce out of side valleys. Remember that wherever two valleys meet there'll be a potential easy ride out on the wind and a nasty area of rotor, should the wind

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