

Inside PixInsight

Warren Keller & Ron Brecher

DAY ONE

9:00	'EASY AS Pi' Introductions and Workshop Overview
9:30	The PixInsight Desktop Environment
10:15	BREAK (15 min)
10:30	Preprocessing Part 1 <ul style="list-style-type: none">• Evaluating subframe quality with Blink• Data reduction with BatchPreprocessing (BPP) script• The Power of Projects
12:00	LUNCH (60 min)
1:00	Preprocessing Part 2 (Luminance) <ul style="list-style-type: none">• ScreenTransferFunction (STF)• DynamicCrop• Background Modelization with ABE• Linear noise reduction with MultiscaleLinearTransform
2:30	BREAK (15 min)
2:45	Preprocessing Part 3 (Chrominance) <ul style="list-style-type: none">• Create a color image with ChannelCombination• DynamicCrop• Background Modelization with ABE• Balance color with ColorCalibration• Linear noise reduction with MultiscaleLinearTransform
3:30	One-Shot Color Considerations <ul style="list-style-type: none">• Debayering• Using BatchPreprocessing script with OSC and DSLR RAW files
4:00	END OF DAY ONE

Inside PixInsight

Warren Keller & Ron Brecher

DAY TWO

9:00	More Preprocessing <ul style="list-style-type: none">• CosmeticCorrection with Auto Detect• StarAlignment• ImageIntegration
10:15	BREAK (15 min)
10:30	Nonlinear Processing Part 1 <ul style="list-style-type: none">• Delinearization with HistogramTransformation• Combining Luminance and Chrominance with LRGBCombination
11:15	Nonlinear Processing Part 2 <ul style="list-style-type: none">• Clones and Luminance Mask basics• TGVDenoise• CurvesTransformation for color saturation, etc.
12:00	LUNCH (60 min)
1:00	Making and Using Masks <ul style="list-style-type: none">• Intro to StarMask and AdvStarMask script• Intro to RangeSelection and GAME script• Combining masks (PixelMath)
1:45	Nonlinear Processing Part 3 <ul style="list-style-type: none">• Contrast enhancement with LocalHistogramEqualization• SCNR
2:30	BREAK (15 min)
2:45	Process Your Own Data I <ul style="list-style-type: none">• Individual Coaching
3:30	Nonlinear Processing Part 4 <ul style="list-style-type: none">• ColorSaturation• HDRMultiscaleTransform
4:00	END OF DAY TWO

Inside PixInsight

Warren Keller & Ron Brecher

DAY THREE

9:00	Day 1 and 2 Review; Questions and Answers
9:30	The Power of PixelMath - Demonstration <ul style="list-style-type: none">• Blending images• Combining Narrowband with RGB• Reducing background mottling
10:15	BREAK (15 min)
10:30	Process Your Own Data II <ul style="list-style-type: none">• Individual Coaching
11:15	Useful Scripts <ul style="list-style-type: none">• DarkStructureEnhance• WriteJPG
12:00	LUNCH (60 min)
1:00	Process Your Own Data III <ul style="list-style-type: none">• Individual Coaching
2:45	BREAK (15 min)
3:00	Customizing PixInsight's Settings <ul style="list-style-type: none">• Global Preferences and Color Management Setup• Readout Options• Importance of Hardware Color Calibration
3:45	Wrap-up; Questions and Answers
4:00	END OF WORKSHOP