

Inside PixInsight

Warren Keller & Ron Brecher

DAY ONE

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| 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 |

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DAY TWO

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|-------|--|
| 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 with PixelMath Demonstration |
| 1:45 | Nonlinear Processing Part 3 <ul style="list-style-type: none">• Contrast enhancement with LocalHistogramEqualization• Contrast enhancement with ExponentialTransformation• 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 Demonstration |
| 4:00 | END OF DAY TWO |

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DAY THREE

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| 9:00 | Day 1 and 2 Review; Questions and Answers |
| 9:30 | Customizing PixInsight's Settings <ul style="list-style-type: none">• Global Preferences and Color Management Setup• Readout Options• Importance of Hardware Color Calibration |
| 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 | The Power of PixelMath - Demonstration <ul style="list-style-type: none">• Blending images• Combining Narrowband with RGB• Reducing background mottling |
| 3:45 | Wrap-up; Questions and Answers |
| 4:00 | END OF WORKSHOP |