

**Catalog of DVDs of Bladsmithing Demonstrations at the
Alabama Forge Council's
Batson Bladesmithing Symposium**

April 2008

April 2009

April 2010

\$25.00 per DVD

Sets - Save \$5 per DVD.

See order form for purchase information



Design Considerations of the Bowie Knife

by Jim Batson, ABS Mastersmith

presented at

Alabama Forge Council
20th Batson Bladesmithing Symposium, April 6, 2008

Produced by H. Kent Hepworth

Chapters:

- | | |
|---|---|
| 1) Presentation: Knife Case & Tomahawk | 2) Touchmark Discussion |
| 3) Knife Handles | 4) Knife Steels & Storage Treatment |
| 5) Bowie Knife Design | 6) Knife Blade Design Considerations |
| 7) Golden Mean Rule: Knife Design | 8) Grinding Techniques: Blade & Tang |

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Welding in Spring Dies *by Steve Schwarzer, ABS Mastersmith*

presented at

Alabama Forge Council
20th Batson Bladesmithing Symposium, April 4, 2008

Produced by H. Kent Hepworth

Chapters:

- | | |
|---------------------------------------|---|
| 1) Session Introduction | 2) Required Die Drift |
| 3) Cracked Blade Repair Jig | 4) Power Hammer (PH) Die Examples |
| 5) PH Die & Swage Holder; Safety Tips | 6) Fabricate Square & Round Swage |
| 7) Spring Swage Forge Welding | 8) Architectural Spring Swage Die Project |
| 8) | |

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Silver Wire Inlay & Filework *by Joe Keeslar, ABS Mastersmith*

presented at

Alabama Forge Council
20th Batson Bladesmithing Symposium, April 4, 2008

Produced by H. Kent Hepworth

Chapters:

- | | |
|---|---|
| 1) Session Introduction | 2) Pattern Concepts & Tooling Needs |
| 3) Materials & Stock Preparation | 4) Layout Primary Scroll |
| 5) Install Primary Scroll | 6) Secondary Scroll Considerations |
| 7) Scroll Termination Pin | 8) Finishing Considerations & Techniques |

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Blade Forging

by Richard Williams, Blacksmith at Dollywood

presented at

Alabama Forge Council

20th Batson Bladesmithing Symposium, April 4, 2008

Produced by H. Kent Hepworth

Chapters:

- | | |
|---------------------------------------|--|
| 1) Introduction and Background | 2) Richard's "Favorite" Hammer |
| 3) "Fish Mouth" Avoidance | 4) Peen to Widen Blade |
| 5) Method for Re-Curving Blade | 6) Anvil "Strikes" Back |
| 7) Working on Tang | 8) First Blade "Hammering" Step |

See Order Form for details

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Making Bowie Knives
by Wade Colter, ABS Mastersmith

presented at

Alabama Forge Council
20th Batson Bladesmithing Symposium, April 5, 2008

Produced by H. Kent Hepworth

Chapters:

- | | |
|--|---|
| 1) Session Introduction | 2) Handle Construction: Ferrules |
| 3) Study Genuine Historic Knives | 4) A Knife Judges Thoughts |
| 5) Combat Quality Weapon | 6) Thoughts on the Ricasso |
| 7) Comfortable Knife Maker's Shop | 8) Knife Assembly |

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Mosaic Damascus Billet Fabrication

by Rick Dunkerley, ABS Mastersmith

Session 1 of 3

presented at

Alabama Forge Council
20th Batson Bladesmithing Symposium, April 4, 2008

Produced by H. Kent Hepworth

Chapters:

- | | |
|--|---|
| 1) Introduction: Mosaic Damascus | 2) Hydraulic Press (HP) Welding |
| 3) H Press Draw before P Hammer Draw | 4) Outline of Mosaic Process |
| 5) HP Billet True-Up; Start 2nd Billet | 6) Pattern Adjustment Using Bias Forging |
| 7) Layer Weldment Failure Repair | 8) Heat Treatment Discussion |

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Completing 2nd Mosaic Damascus Billet *by Rick Dunkerley, ABS Mastersmith*

Session 2 of 3

presented at

Alabama Forge Council
20th Batson Bladesmithing Symposium, April 4, 2008

Produced by H. Kent Hepworth

Chapters:

- | | |
|---|--|
| 1) Fabrication of 2nd Mosaic Billet | 2) Power Hammer (PH) Drawing of 2nd Billet |
| 3) Philosophy on Mosaic Patterning | 4) Next Progression on a Mosaic Billet |
| 5) Suggestions on Building Billets | 6) Measuring Forge Temperature-2360F |
| 7) PH Forging Mosaic Billet on Bias | 8) Completed Mosaic Billet; Extract Sample |

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Four Mosaic Element Tile Fabrication

by Rick Dunkerley, ABS Mastersmith

Session 3 of 3

presented at

Alabama Forge Council
20th Batson Bladesmithing Symposium, April 5, 2008

Produced by H. Kent Hepworth

Chapters:

- | | |
|---|--|
| 1) Introduction to Four Mosaic Element Tile | 2) First Damascus Billet Configuration |
| 3) Hydraulic Press Tile Preparation | 4) P Hammer Mosaic Billet on its Bias |
| 5) Forge Weld Mosaic Elements- Form a Tile | 6) Tile Billet End Effects |
| 7) Cutting and Etching a Tile Sample | 8) Presentation Slide Show |

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Tim Hancock

“Blade Grinding”



AFC 21th Batson Bladesmithing
Symposium, Rendezvous & Knife Show
April 3 – 5, 2009
Tannehill Historical State Park; McCalla, Alabama

Chapters:

- | | |
|--------------------------------------|--------------------------------------|
| 1) Introduction & Tooling | 2) Special Blade Grinding Tools |
| 3) Blade Grinding Considerations | 4) Grinding Blade Chamfer |
| 5) Blade "Hollow Grind" | 6) Blade "Flat Grind" |
| 7) Blade Tip's Shaping | 8) Blade Ready for Heat Treat |
| 9) Inserting Blade's Plunge Cut | 10) The Disk Grinder |
| 11) Final Grinding Using Finer Grits | 12) Hand Finishing Jigs and Thoughts |

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Tim Hancock

“Handles & Guards”



AFC 21th Batson Bladesmithing
Symposium, Rendezvous & Knife Show
April 3 – 5, 2009
Tannehill Historical State Park; McCalla, Alabama

Chapters:

- | | |
|---|--|
| 1) Introduction, Blade Geometry & "Guard Stripper" | 2) Squaring Blade Shoulder for Handle Fittings |
| 3) Fitting Guard to Blade | 4) Installing a Spacer |
| 5) A Mirror for Perfect Alignment | 6) Install the Handle |
| 7) Spacer/Handle Fitting & Epoxy Placement | 8) Butt Cap/Finial Preparation & Tang Brazing |
| 9) Butt Cap/Handle Alignment | 10) Shaping Handle Assembly |
| 11) Butt Cap/Finial Fit & Handle Completion Methods | 12) Shaping Guard |

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Joe Keeslar

“Heat Treating”

AFC 21th Batson Bladesmithing
Symposium, Rendezvous & Knife Show
April 3 – 5, 2009
Tannehill Historical State Park; McCalla, Alabama

Chapters:

- 1) Introduction & Handout Discussion
- 2) Heat Treating Process
- 3) Hardness Test & Tempering Discussion
- 4) Blade Partial Heating & Quenching
- 5) Tempering Process
& Blade Profile Discussion
- 6) Know the Steel's Composition
- 7) Full Quench Knife Blades
- 8) Slide Presentation:
Heat Treating Handout

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Dan Petersen

“Blade Forging Considerations”

AFC 21th Batson Bladesmithing
Symposium, Rendezvous & Knife Show
April 3 – 5, 2009
Tannehill Historical State Park; McCalla, Alabama

Chapters:

- | | |
|---|--|
| 1) Introduction | 2) Iron/Carbon vs. Quench Hardness Diagram |
| 3) Effect of Forging on Steel | 4) 5160 Steel |
| 5) Temper Blade Immediately after Quenching | 6) Discussion of Bainite Structure |
| 7) Internet References & Their Use | 8) 52100 Steel |

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James Rodebaugh

“Advanced Damascus: Edge Wrapping A Cored Blade” Session #1 of 2

AFC 21th Batson Bladesmithing
Symposium, Rendezvous & Knife Show
April 3 – 5, 2009
Tannehill Historical State Park; McCalla, Alabama

Chapters:

- | | |
|--|--|
| 1) Introduction & Edge Wrapping Discussion | 2) Edge Wrap Prep for Welding |
| 3) Binding of Blade Elements | 4) Welding Blade Assembly Tip |
| 5) Binding Removal to Complete Blade Welding | 6) Power Hammer & Press to Complete Weld |
| 7) Forming Blade Tip | 8) Forging Blade |

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James Rodebaugh

“Advanced Damascus: Edge Wrapping A Cored Blade” Session #2 of 2

AFC 21th Batson Bladesmithing
Symposium, Rendezvous & Knife Show
April 3 – 5, 2009

Tannehill Historical State Park; McCalla, Alabama



Chapters:

- 1) Continuing Damascus Billet Fabrication
- 2) Discussion of Sanding & Etching Damascus
- 3) Alternate Etching Methods
- 4) Return to Edge Wrapped Corded Blade
- 5) Power Hammer Forging Blade's Edge
- 6) Hand Forging Blade's Edge
- 7) Sketch of James' Guillotine & Hardy Tools
- 8) Minor Separation Repair at Blade's End

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James Rodebaugh

“Basic Damascus”

AFC 21th Batson Bladesmithing
Symposium, Rendezvous & Knife Show
April 3 – 5, 2009
Tannehill Historical State Park; McCalla, Alabama

Chapters:

- | | |
|--|--|
| 1) Introduction & Damascus Handout | 2) Billet Preparation & Handle Configuration |
| 3) Indicators of a "Good" Welding Heat | 4) Steps for a Twist Billet |
| 5) Cutting and Folding the Damascus Billet | 6) Steps to Form a Jellyroll Billet |
| 7) Technique to Maintain Handle Integrity | 8) Billet Preparation: Second Cut & Fold |

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Steve Schwarzer

“Building A Gas Forge”

AFC 21th Batson Bladesmithing
Symposium, Rendezvous & Knife Show
April 3 – 5, 2009
Tannehill Historical State Park; McCalla, Alabama

Chapters:

- | | |
|---|---|
| 1) Introduction & Gas Forge History | 2) Construction Materials & Methods |
| 3) Casting Refractory Cementitious
Floor & Drain | 4) Blower Driven Forge Burner
Construction |
| 5) Demonstrating a Micro-Forge | 6) Installing Kaowool/Satanite Process |
| 7) Forming Kaowool/Satanite Top & Ports | 8) Installing Burner and Firing-Up Forge |

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James Batson

“Bowie Blade Forging, Session #1 Hand Forged Blade”

AFC 22nd Batson Bladesmithing
Symposium & Knife Show
April 8 - 11, 2010

Tannehill Historical State Park; McCalla, Alabama

Chapters:

- | | |
|--|------------------------------|
| 1) Introduction & History | 2) Hand Forging Bowie Blade |
| 3) Bladesmithing Metallurgy | 4) Blade Dimensions & Design |
| 5) Forging Blade Tip & Taper | 6) Forging Cutting Edge |
| 7) Borax to Clean Blade,
Planishing Heats | 8) Forging Clip Point Blade |

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James Batson

“Bowie Blade Grinding, Session #2 Power Hammer Forging & Grinding Blade”

AFC 22nd Batson Bladesmithing
Symposium & Knife Show
April 8 - 11, 2010

Tannehill Historical State Park; McCalla, Alabama

Chapters:

- | | |
|--------------------------------|--|
| 1) Hand Forged Blade Discussed | 2) Blade Metallurgy Illustrated |
| 3) Power Hammer Blade Forging | 4) Removing "Fish Mouth" Process |
| 5) Setting Bowie Blade's Point | 6) Grinding Safety &
Fabricating Push Stick |
| 7) Basics of Grinding | 8) Maintaining Blade/Grinder Alignment |

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James Batson

“Blade Heat Treating, Session #3 Grinding & Heat Treat Blade”

AFC 22nd Batson Bladesmithing
Symposium & Knife Show
April 8 - 11, 2010

Tannehill Historical State Park; McCalla, Alabama

Chapters:

- | | |
|-----------------------------------|--|
| 1) Flat Platen Blade Grinding | 2) Correcting Blade Problems |
| 3) 8" (40 Durometer) Grinding | 4) Filing Jig Employment |
| 5) Adding Cutting Edge Decoration | 6) Heat Treating Blade;
Metallurgy Basics |
| 7) Preparing Oil Bath & Quenching | 8) Differential Tempering Blade |

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Dan Johnson

“Belts, Wheels & Grinding”

AFC 22nd Batson Bladesmithing
Symposium & Knife Show
April 8 - 11, 2010

Tannehill Historical State Park; McCalla, Alabama



Chapters:

- 1) Introduction & Purpose
- 2) Contact Wheel Style & Composition Hardness
- 3) Wheel Size, Scale Removal & Belt Life
- 4) Wet Vs. Dry Grinding; Belt Types & Abrasives
- 5) Contact Wheel Cautions & Maintenance
- 6) Finishing, Buffing & “Scotch Brite” Belts
- 7) Belt: Grits; Open & Closed Coat; Storage; Width
- 8) Belt Speed; flex; Weight & Grit Grading
- 9) Efficient Abrasive Use; Platen Backings
- 10) Machines & Accessories Maintenance
- 11) Serration Aggressiveness; Static Electricity
- 12) Dust Concerns & Management

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Raymond Rybar

“Damascus Steel, Session 1: W-Pattern”

AFC 22nd Batson Bladesmithing
Symposium & Knife Show
April 8 - 11, 2010

Tannehill Historical State Park; McCalla, Alabama

Chapters:

- | | |
|---|--|
| 1) Introduction & Purpose | 2) Initial "W-Pattern" Billet |
| 3) Preparing "W-Pattern" Billet
for Forging | 4) Thoughts on Billet Handles |
| 5) Forge Considerations;
Billet Preparation | 6) Satiating Cross Box
with 1084 Powder |
| 7) Preparing W-Pattern
& Cookie Cutter Billets | 8) Forging Cross Billet |

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Raymond Rybar

“Damascus Steel, Session 2: Mosaic Billet”

AFC 22nd Batson Bladesmithing
Symposium & Knife Show
April 8 - 11, 2010

Tannehill Historical State Park; McCalla, Alabama

Chapters:

- 1) Introduction & Overview
- 2) Forming Intricate Damascus Patterns
- 3) Rybar's Detail Preservation Process
- 4) Preparing Mosaic Billets
- 5) Forging Mosaic Billets
- 6) Create Feather Billet: Forge Weld & Fuller
- 7) Welding & Drawing Mosaic Billets
- 8) Slide Show: Examples of Rybar's Damascus

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Raymond Rybar

“Damascus Steel, Session 3: Sentence Mosaic”

AFC 22nd Batson Bladesmithing
Symposium & Knife Show
April 8 - 11, 2010

Tannehill Historical State Park; McCalla, Alabama

Chapters:

- | | |
|---|--|
| 1) Forging to Size Heart Tile | 2) Forging Pistol Tile to Dimension |
| 3) Forming Tiles into “Mosaic Sentence” | 4) Finalizing Pistol Tile Configuration |
| 5) Fabricating the "Sentence Mosaic" | 6) Forge "Wet Welding" Mosaics Billet |
| 7) Edge & Spine High Carbon;
Fuller Feather Billet | 8) Forging Mosaic Billet into Hunter Blade |

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Raymond Rybar

“Damascus Steel, Session 4: Feather Tile Billet”

AFC 22nd Batson Bladesmithing
Symposium & Knife Show
April 8 - 11, 2010

Tannehill Historical State Park; McCalla, Alabama

Chapters:

- | | |
|--|-----------------------------------|
| 1) Introduction & Overview | 2) Mosaic Design Discussion |
| 3) Measuring Forge Temperature | 4) Forging Feather Pattern Billet |
| 5) Mosaic Tile Placement
Considerations | 6) Stacking Tile to Form Mosaic |
| 7) Completing Feather Billet Forging | 8) Etching Feather Tile Billet |

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