Secondary Combustion
Wood Stove 101

Clear the Air
Fairbanks, Alaska
Introduction

- Dan Henry, Co-founder, Quadra-Fire
- Founded Quadra-Fire in 1979
- Multiple patents in clean-burning, secondary combustion stoves
- Currently Industry Consultant, 5G3 Consulting
Wood Stoves

4300 Step Top Steel Wood Stove
Wood Stoves

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Explorer I Cast Iron Wood Stove
Wood Stoves

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Adventure III Steel Wood Stove
Wood Stove Secondary Combustion

1. Ash removal system access cover
2. Ceramic glass
3. Stainless steel tubes
4. High Temp. Baffle System

- Burn rate control
- Rear air channel
- Mechanical timer
- Rear air inlet
- Start-up air inlet
- Start-up air and rear air control
- Ash pan
Wood Stove Secondary Combustion

- **Quaternary**: Above Baffle - not visible
- **Tertiary**: Under Baffle - visible during most stages of combustion
- **Secondary**: In Front of Glass - visible during initial stages of combustion
- **Primary**: Initiated From Coal Bed - most important burn zone