WHAT IS CLAIMED IS:

1. An abrasive article comprising:

a substrate comprising an elongated body; and

abrasive particles attached to the elongated body, wherein the abrasive particles define a varying content between a local minimum content and a local maximum content, and wherein the local minimum content is at least 5 counts and a content difference (ΔC) between the local minimum content and the local maximum content is at least 14 counts, wherein the content of the abrasive particles oscillates along at least a portion of the length of the body between the local minimum and the local maximum value.

2. The abrasive article of claim 1 wherein the body includes an uncovered region.

3. The abrasive article of claim 1, further comprising:

a first abrasive region comprising abrasive particles overlying the elongated body, wherein the first abrasive region comprises a first content of abrasive particles (C1), wherein C1 > 0;

a second abrasive region comprising abrasive particles overlying the elongated body, wherein the second abrasive region comprises a second content of abrasive particles (C2), wherein C2 > 0; and

a content difference (ΔC) between the first content and the second content of at least 14 counts.

4. The abrasive article of claim 1 wherein the content difference (ΔC) is at least 15 counts or at least 20 counts or at least 25 counts or at least 30 counts or at least 35 counts or at least 40 counts or at least 45 counts or at least 50 counts.

5. The abrasive article of claim 1, wherein the content difference (ΔC) is not greater than 200 counts or not greater than 150 counts or not greater than 100 counts or not greater than 90 counts or not greater than 80 counts or not greater than 70 counts or not greater than 65 counts or not greater than 60 counts.

6. The abrasive article of claim 1, wherein C1 corresponds to a local maximum content.

7. The abrasive article of claim 1, wherein C2 corresponds to a local minimum content.

8. The abrasive article of claim 1, wherein the abrasive particles overly the elongated body and the elongated body is free of an uncovered region.

9. The abrasive article of claim 1, wherein the abrasive particles are arranged in a random arrangement relative to each other.

10. The abrasive article of claim 1, further comprising alternating abrasive regions defining a series of alternating local minimum and local maximum abrasive contents extending along the length of the elongated body.

11. A method for forming an abrasive article comprising:

providing a substrate comprising an elongated body; and

depositing a slurry comprising a mixture of precursor material and abrasive particles onto the elongated body to form a coated substrate, wherein during depositing the content of abrasive particles deposited onto the substrate oscillates along at least a portion of the length of the body between a local minimum and a local maximum value.

12. The method of claim 11, wherein the content of abrasive particles is varied by controlling at least one deposition characteristic selected from the group consisting of a slurry flow rate, an opening size of a deposition port, a volume of slurry deposited per unit of time, a number of deposition ports actively depositing slurry, direction of the deposition ports, using a deflection plate to control a direction of the flow of the slurry from the deposition port, a translating speed of the substrate, or any combination thereof.

13. The method of claim 12, wherein the content of abrasive particles is varied by using a deflection plate to control the direction of the flow of the slurry from a deposition port.

14. The method of claim 13, wherein the deflection plate is periodically in contact with the flow of slurry from the deposition port.

15. The method of claim 12, wherein the content is varied by changing the flow rate of the slurry between a minimum and maximum value to alter the content of abrasive particles attached to the substrate.

16. The method of claim 11, wherein the length along the elongated body between a local minimum and a local maximum defines a cycle, and wherein a cycle is at least 0.01% and not greater than 50% of the total length of the body.

17. The abrasive article of claim 1, wherein the length along the elongated body between a local minimum and a local maximum defines a cycle, and wherein a cycle is at least 0.01% and not greater than 50% of the total length of the body.