WHAT IS CLAIMED IS:

1. A displacement plug for use in a wellbore tubular, comprising:

a plug body for landing in the wellbore tubular, wherein at least a portion of the plug body comprises an electrically conductive metal configured to expand in response to hydrolysis to seal against the wellbore tubular, and further wherein during the expansion, the electrically conductive metal is configured to go from metal to micron-scale particles that are larger and lock together; and

one or more displacement features engaged with the plug body for displacing the plug body downhole.

2. The displacement plug as recited in Claim 1, wherein the plug body includes a nose, wherein at least a portion of the nose comprises the electrically conductive metal configured to expand in response to hydrolysis.

3. The displacement plug as recited in Claim 2, wherein the nose includes a nose nut, the nose nut comprising the electrically conductive metal configured to expand in response to hydrolysis, or optionally wherein the nose includes a tubular, the tubular comprising the electrically conductive metal configured to expand in response to hydrolysis, or optionally wherein the nose includes a lock ring, the lock ring comprising the electrically conductive metal configured to expand in response to hydrolysis, or optionally wherein the nose includes an O-ring.

4. The displacement plug as recited in Claim 1, wherein the plug body is a casing displacement plug body, or optionally wherein the plug body is a drill pipe displacement plug body.

5. The displacement plug as recited in Claim 1, wherein the one or more displacement features are one or more displacement fins, or optionally wherein the one or more displacement fins are coupled to the plug body.

6. A method for entering a well system, comprising:

pumping fluid within a wellbore tubular;
positioning a displacement plug in the wellbore tubular after pumping the fluid, the displacement plug landing in the wellbore tubular, the displacement plug including:

a plug body for landing in the wellbore tubular, wherein at least a portion of the plug body comprises an electrically conductive metal configured to expand in response to hydrolysis to seal against the wellbore tubular; and further wherein during the expansion, the electrically conductive metal is configured to go from metal to micron-scale particles that are larger and lock together; and

subjecting the displacement plug to a wellbore fluid, thereby forming an expanded displacement plug fixed in the wellbore tubular, the expanded displacement plug including a cement plug body.

7. The method as recited in Claim 6, wherein the displacement plug further includes one or more displacement features engaged with the plug body.

8. The method as recited in Claim 7, wherein the one or more displacement features are one or more displacement fins coupled to the plug body.

9. The method as recited in Claim 6, wherein pumping fluid within the wellbore tubular includes pumping cement within the wellbore tubular.

10. The method as recited in Claim 6, wherein the plug body includes a nose, wherein at least a portion of the nose comprises the electrically conductive metal configured to expand in response to hydrolysis, or optionally wherein the nose includes a nose nut, the nose nut comprising the electrically conductive metal configured to expand in response to hydrolysis, or optionally wherein the nose includes a tubular, the tubular comprising the electrically conductive metal configured to expand in response to hydrolysis, or optionally wherein the nose includes a lock ring, the lock ring comprising the electrically conductive metal configured to expand in response to hydrolysis, or optionally wherein the nose includes an O-ring.

11. A well system, comprising:

a wellbore positioned in a subterranean formation;

a wellbore tubular positioned within the wellbore, an annulus existing between the wellbore tubular and the wellbore;

an expanded displacement plug fixed in the wellbore tubular, the expanded displacement plug including a cement plug body and one or more displacement features engaged with the cement plug body; and

cement positioned in the annulus.

12. The system as recited in Claim 11, wherein the one or more displacement features are one or more displacement fins.

13. The system as recited in Claim 12, wherein the one or more displacement fins are coupled to the cement plug body.

14. The well system as recited in Claim 11, wherein the wellbore tubular is a landing collar, or optionally wherein the landing collar is a landing collar of a shoe track, or optionally wherein the shoe track includes a float collar and a float shoe, or optionally.

15. The well system as recited in Claim 14, wherein the landing collar is wellbore casing, or optionally wherein the landing collar is a wet shoe sub having a sliding sleeve disposed therein, the sliding sleeve configured to slide to open a flow path below the plug body, or optionally further including one or more plug members positioned within the flow path, the plug member comprising an electrically conductive metal configured to expand in response to hydrolysis to seal the flow path.