WHAT IS CLAIMED IS:

1. An expandable metal plug for use in a wellbore tubular, comprising:

a downhole member positionable proximate a plug and abandonment section in a wellbore tubular,

wherein at least a portion of the downhole member comprises a metal configured to expand in response to hydrolysis to seal the wellbore tubular.

2. The expandable metal plug as recited in Claim 1, wherein the downhole member is a single plug of the metal configured to expand in response to the hydrolysis, the downhole member having a length (L) greater than a width (W) of the wellbore tubular.

3. The expandable metal plug as recited in Claim 1, wherein the downhole member is a single plug including a mixture of the metal configured to expand in response to the hydrolysis and a low melting point metal or alternatively wherein the low melting point metal is a metal alloy having a melting point of at least 40 degrees centigrade.

4. The expandable metal plug as recited in Claim 1, further including a coating substantially surrounding the downhole member, the coating configured to delay the expansion of the metal in response to hydrolysis.

5. The expandable metal plug as recited in Claim 1, further including two or more expandable centralizers coupled to the downhole member, or alternatively wherein the two or more expandable centralizers are two or more spring loaded centralizers.

6. The expandable metal plug as recited in Claim 1, further including a radially deployable chute coupled to the downhole member, the radially deployable chute configured to catch fluid travelling through the wellbore tubular and push the expandable metal plug downhole proximate the plug and abandonment section.

7. The expandable metal plug as recited in Claim 1, wherein the downhole member is a collection of individual separate chunks of the metal held together with a binding agent, or alternatively wherein the binding agent is salt, or alternatively wherein the collection of individual separate chunks of the metal are a collection of individual separate different sized chunks of the metal, or alternatively wherein a volume of the largest most individual chunk of the metal is at least 5 times a volume of the smallest most individual chunk of the metal.

8. The expandable metal plug as recited in Claim 7, wherein a volume of the largest most individual chunk of the metal is at least 50 times a volume of the smallest most individual chunk of the metal, or alternatively wherein a diameter of the largest most individual chunk of the metal is at least 2 times a diameter of the smallest most individual chunk of the metal, or alternatively wherein a diameter of the largest most individual chunk of the metal is at least 10 times a diameter of the smallest most individual chunk of the metal.

9. The expandable metal plug as recited in Claim 7, further including a coating substantially surrounding each of the individual chunks of metal, the coating configured to delay the expansion of the metal in response to hydrolysis.

10. The expandable metal plug as recited in Claim 7, further including a radially deployable chute coupled to the collection of individual separate chunks of the metal held together with the binding agent, the radially deployable chute configured to catch the individual separate chunks of the metal when the binding agent dissolves, or alternatively wherein the radially deployable chute includes a collection of link arms that move relative to each other to radially deploy one or more petals.

11. A method for plugging and abandoning a well system, comprising:

positioning an expandable metal plug proximate a plug and abandonment section in a wellbore tubular, the expandable metal plug including a pre-expansion downhole member, wherein at least a portion of the pre-expansion downhole member comprises a metal configured to expand in response to hydrolysis to seal the wellbore tubular; and

subjecting the pre-expansion downhole member to a wellbore fluid to expand the metal into contact with the wellbore tubular and thereby form an expanded metal plug the wellbore tubular.

12. The method as recited in Claim 11, wherein positioning the expandable metal plug proximate a plug and abandonment section in a wellbore tubular includes positioning the pre-expansion downhole member comprising a single plug of the metal configured to expand in response hydrolysis.

13. The method as recited in Claim 11, wherein positioning the expandable metal plug proximate a plug and abandonment section in a wellbore tubular includes positioning the pre-

expansion downhole member comprising a mixture of the metal configured to expand in response to the hydrolysis and a low melting point metal.

14. The method as recited in Claim 11, wherein positioning the expandable metal plug proximate a plug and abandonment section in a wellbore tubular includes positioning the downhole member comprising a collection of individual separate chunks of the metal held together with a binding agent proximate the plug and abandonment section in the wellbore tubular, or alternatively wherein the collection of individual separate chunks of the metal are a collection of individual separate different sized chunks of the metal, or alternatively wherein a volume of the largest most individual chunk of the metal is at least 5 times a volume of the smallest most individual chunk of the metal, or alternatively further including a coating substantially surrounding each of the individual chunks of metal, the coating configured to delay the expansion of the metal in response to hydrolysis, or alternatively further including positioning a radially deployable chute in the wellbore tubular, the radially deployable chute positioned downhole of the collection of individual separate chunks of the metal held together with the binding agent, the radially deployable chute configured to catch the individual separate chunks of the metal when the binding agent dissolves.

15. A well system, comprising:

a wellbore tubular positioned within a wellbore in a subterranean formation;

an expanded metal plug positioned proximate a plug and abandonment section in the wellbore tubular, the expanded metal plug including a downhole member comprising a metal configured to expand in response to hydrolysis, the downhole member having expanded radially into contact with the wellbore tubular to plug the wellbore tubular.