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~~.~~

~~4. The expandable metal plug as recited in Claim 3,~~ or alternatively wherein the low melting point metal is a metal alloy having a melting point of at least 40 degrees centigrade.

~~5~~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.

~~6~~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.

~~7. The expandable metal plug as recited in Claim 6, wherein the two or more expandable centralizers are two or more spring loaded centralizers.~~

~~8~~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.

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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~~.~~

~~10. The expandable metal plug as recited in Claim 9,~~, or alternatively wherein the binding agent is salt~~.~~

~~11. The expandable metal plug as recited in Claim 9,~~, or alternatively wherein the collection of individual separate chunks of the metal are a collection of individual separate different sized chunks of the metal~~.~~

~~12. The expandable metal plug as recited in Claim 11,~~, 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.

~~13~~8. The expandable metal plug as recited in Claim ~~11~~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~~.~~

~~14. The expandable metal plug as recited in Claim 11,~~, 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~~.~~

~~15. The expandable metal plug as recited in Claim 11,~~, 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.

~~16~~9. The expandable metal plug as recited in Claim ~~9~~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.

~~17~~10. The expandable metal plug as recited in Claim ~~9~~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~~.~~

~~18. The expandable metal plug as recited in Claim 17,~~, 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.

~~19~~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.

~~20~~12. The method as recited in Claim ~~19~~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.

~~21~~13. The method as recited in Claim ~~19~~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.

~~22. The method as recited in Claim 19, wherein positioning the expandable metal plug proximate a plug and abandonment section in a wellbore tubular includes positioning the downhole member having a radially deployable chute coupled thereto.~~

~~23. The method as recited in Claim 19~~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.

24. The method as recited in Claim 23,, or alternatively wherein the collection of individual separate chunks of the metal are a collection of individual separate different sized chunks of the metal.

25. The method as recited in Claim 24,, 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.

26. The method as recited in Claim 23, wherein the binding agent is salt.

27. The method as recited in Claim 23,, 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.

28. The method as recited in Claim 23,, 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.

29. The method as recited in Claim 19, further including placing a radially deployable chute in the wellbore tubular proximate the plug and abandonment section prior to the positioning, and further wherein positioning the expandable metal plug proximate a plug and abandonment section in a wellbore tubular includes dumping a collection of individual separate chunks of the metal in the wellbore tubular, the collection of individual separate chunks of the metal collected by the radially deployable chute.

~~30. The method as recited in Claim 29, further including dumping a collection of individual separate chunks of low melting point metal in the wellbore tubular with the collection of individual separate chunks of the metal.~~

~~31. The method as recited in Claim 19, further including removing a portion of the wellbore tubular to at least partially expose an annulus surrounding the wellbore tubular prior to the positioning, the subjecting expanding the metal at least partially into the annulus.~~

~~32~~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.

~~33. The well system as recited in Claim 32, wherein a portion of the wellbore tubular has been removed proximate the plug and abandonment section thereby exposing an annulus surrounding the wellbore tubular, and further wherein the downhole member has expanded radially into the annulus.~~

~~34. The well system as recited in Claim 32, wherein a volume of the expanded downhole member is at least 3500 cm^3.~~

~~35. The well system as recited in Claim 32, wherein a volume of the expanded downhole member is at least 775,000 cm^3.~~

~~36. The well system as recited in Claim 32, wherein a length (L_e) of the expanded downhole member is at least 90 cm.~~

~~37. The well system as recited in Claim 32, wherein a length (L_e) of the expanded downhole member is at least 1500 cm.~~

~~38. The well system as recited in Claim 32, wherein the expanded downhole member includes residual unreacted metal.~~