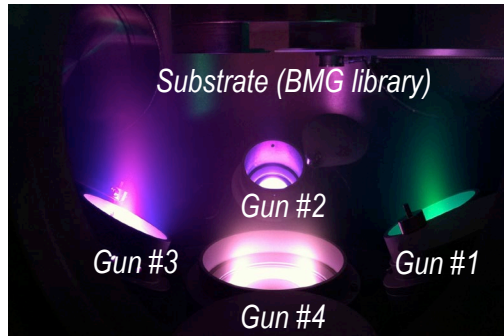
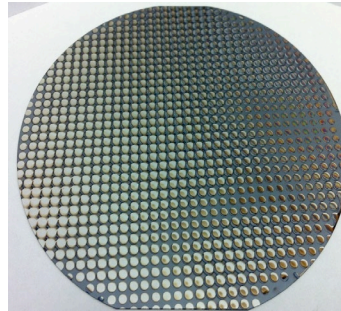


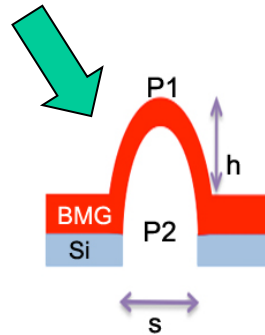
# Finding a glass needle in a haystack



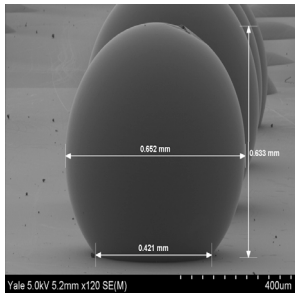
Deposit thin film



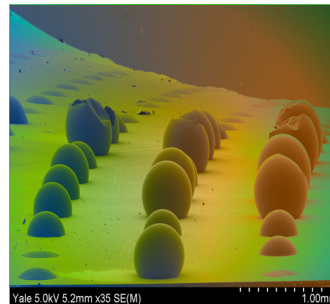
BMG on 4" wafer



Film on top of hole



Best glass has highest bubble



Film forms bubble

Metals that are glasses and can be formed like plastics are called bulk metallic glasses (BMG). But not all metals can be glasses and one has to sort through a large number of chemical compositions to find a good BMG. a trial and error processes could take up to a day to decide if a single composition can be molded. Sorting through hundreds of BMGs that are composed of four chemical elements would take up to a year. Now, with CRISP's new combinatorial deposition system, more than 800 different compositions can be synthesized and characterized in a day. Using this method, an optimized metallic glass former that can be easily molded has been found.

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