Dewatering PCB by using

focused ultrasonic

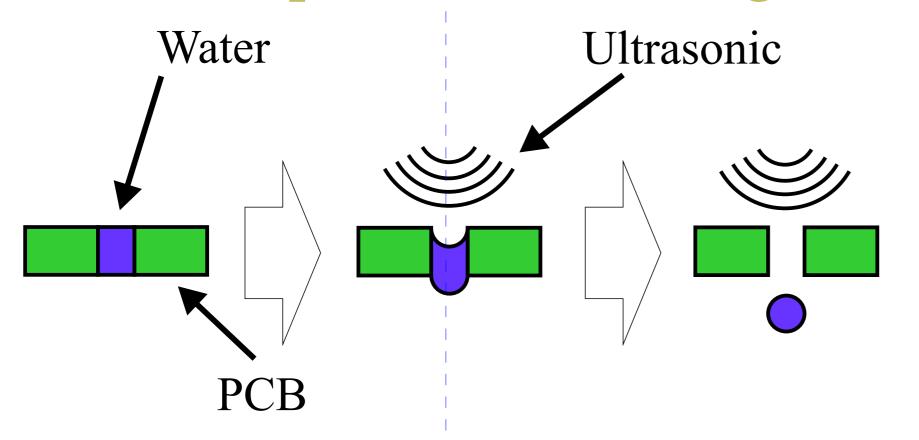
Control Engineering Laboratory

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-Introduction-

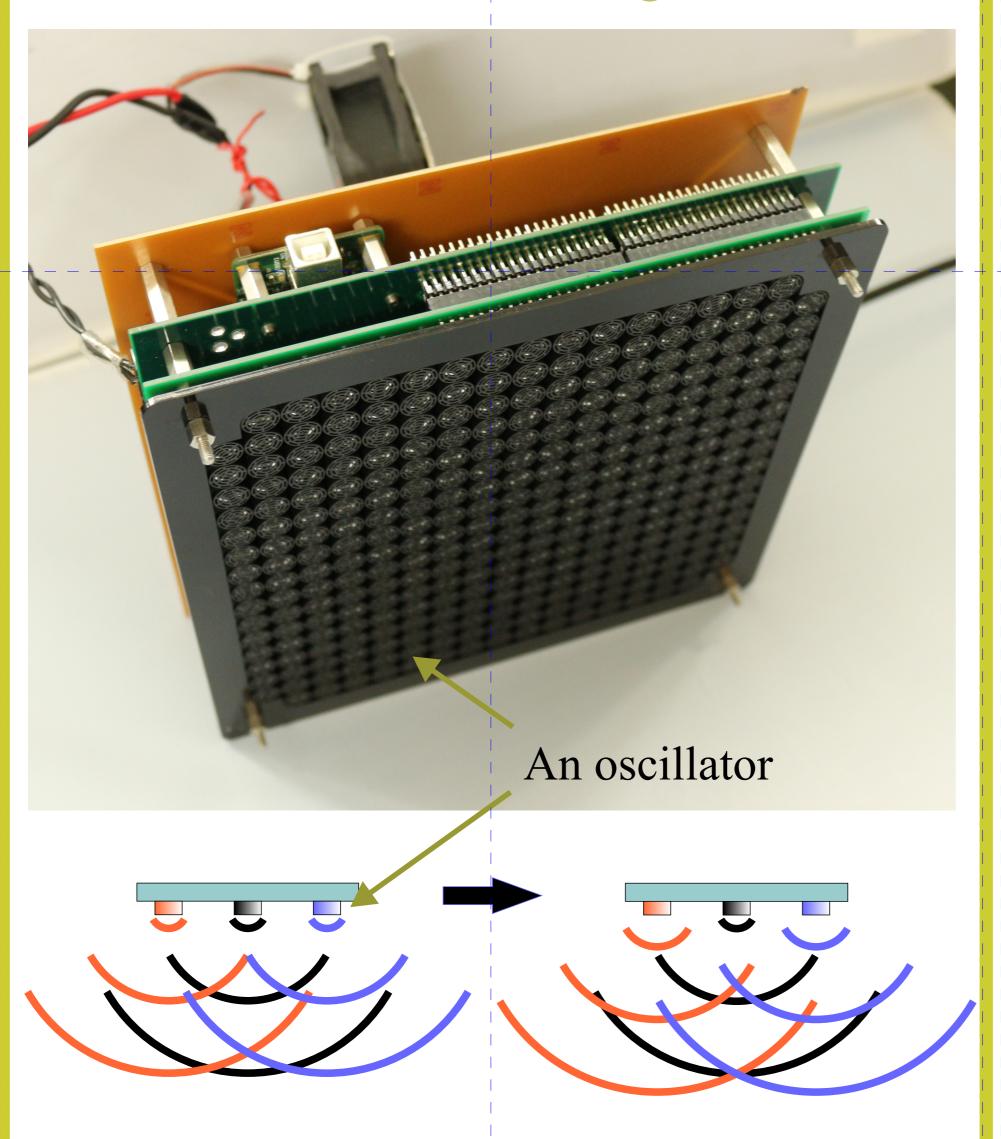
Processed PCB needs washing for removing impurities. After washing, it's vias contain water. We can push out water by ultrasonic irradiation. In this research, we change via's diameter and thickness of bakelite board and compare dewatering success rate.

Principle of dewatering-



Acoustic radiation pressure push out water

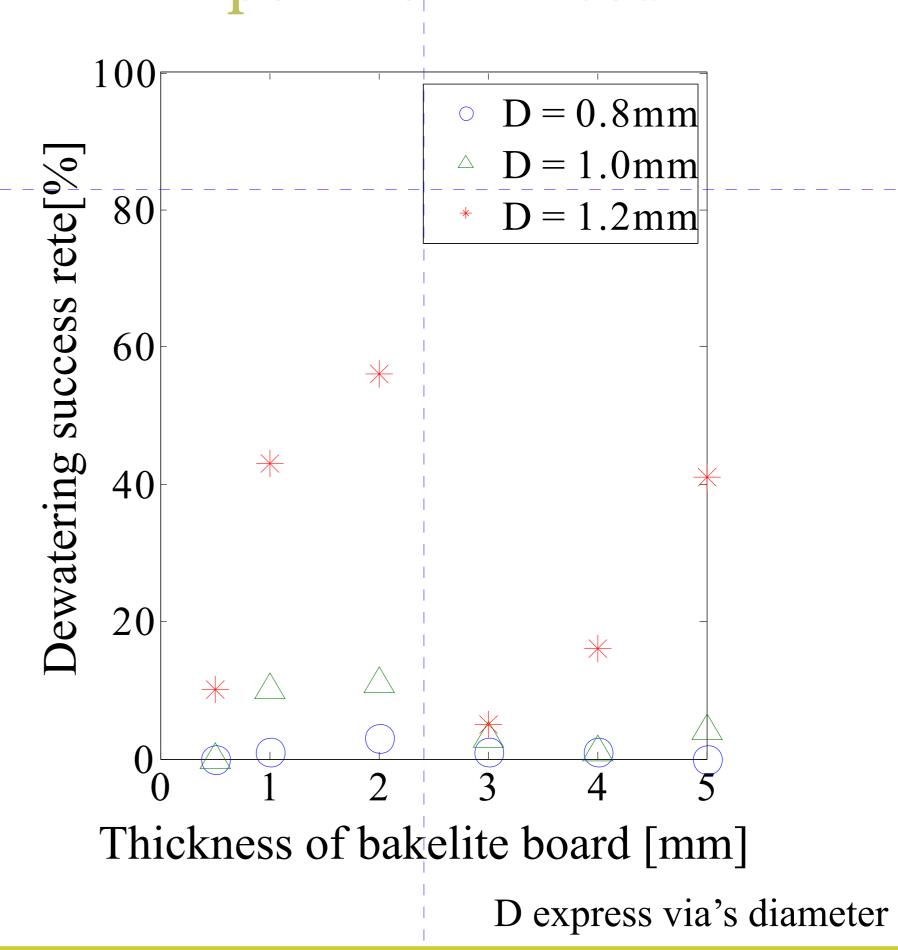
Ultrasonic focusing device



Focusing by controling phase of sound wave

Measurement of sound pressure 5000 1000 X-axis[mm] Sound pressure distribution near the focus point

-Experimental result-



Future plan-

Comparing dewatering success rate by changing other parameters



