

TA005

SEMICONDUCTOR AND MICROELECTRONICS FABRICATION

ROUND TABLE DISCUSSION: THE CHANGING ROLE OF MICROWAVE AND RF IN SEMICONDUCTOR PROCESSING

Murray Kennedy

Microwave and RF technology play an important role in the processing of semiconductors. These high frequency technologies are applied at several stages of the process from photo resist cure, chamber clean, etch and ash, to ion implantation, deposition and more.

Developments in the industry with respect to processing speed and wafer size have driven change in the requirements for high frequency equipment. Additionally, alternative technologies have been developed that can perform some of the tasks previously performed by microwave and RF at a lower cost. As chip densities increase the need for improved processing equipment has lead to a shift in the “preferred” technology.

This roundtable discussion will focus on the technology shift and the future of both microwaves and RF in semiconductor processing. Industry experts from the equipment manufacturing sector will offer their insight on what is driving change. The panel will consist of design engineers, senior scientist and senior executives from the semiconductor equipment processing sector.