

## **Analytical Performance of a Turn-Key Femtosecond Laser Ablation System**

ROB HUTCHINSON<sup>1</sup>, KATHERINE MCLACHLIN<sup>2</sup>,  
CIARAN O'CONNOR<sup>2</sup>, SHANE HILLIARD<sup>2</sup>, LEIF  
SUMMERFIELD<sup>2</sup>, JAY WILKINS<sup>2</sup>, ERIK LARSEN<sup>2</sup>

<sup>1</sup>Electro Scientific Industries, Inc (ESI), 8 Avro  
Court, Ermine Business Park, Huntingdon PE29  
6XS, UK, rhutchinson@esi.com

<sup>2</sup>Electro Scientific Industries, 685 Old Buffalo Trail,  
Bozeman, MT, USA 59718

Much has been made of the capability of femtosecond laser ablation ICP-MS to reduce fractionation in analysis through extensive research to the point where a commercial market now exists for off-the-shelf femtosecond laser ablation systems such as the NWR FemtoUC from ESI (Figure 1). Here we present some recent research performed using ESI's NWR Femto laser systems using peer-reviewed work on matrix dependency of multi-standard analysis<sup>1</sup> from the Max Planck Institute (Mainz, Germany) and zircon analysis and particle distribution analysis from the University of Kyoto (Japan).