

PRESS RELEASE

March 2006

New technical note describing the advantages of an ICP spectrometer with a wavelength range of 165 - 1100 nm

Hudson, NH - Teledyne Leeman Labs, a leading manufacturer of analytical instrumentation for elemental analysis, announces the release of a new technical note which shows the benefits of an ICP spectrometer with a broad wavelength range to help find “new” wavelengths.

Since the introduction of ICP-OES in the 70’s most instruments offered a wavelength range of 165 - 777 nm. Once the transition from photomultiplier tube to array detector occurred, wavelength coverage tended to be reduced by either limiting the user to discrete spectral segments where the most useful emission lines existed or where the manufacturer chose to eliminate large regions of the spectrum that were deemed unnecessary.

The Prodigy ICP with its Large Format Programmable Array Detector (L-PAD) has a wavelength range of 165 - 1100 nm. There are distinct advantages to such large wavelength coverage. Two examples are illustrated in this technical note. First, access to a new cesium emission line at 894.347 nm is shown to yield a detection limit over 600 times lower than the previously thought to be “primary emission line” at 455 nm. Second, access to an Iodine line that is free from Phosphorus and Chromium interferences that affect the 178.251 and 206.163 nm lines.

To receive a copy of our latest technical note, “*The use of spectral subtractions and broad wavelength coverage to find “new” wavelengths from ICP-OES*”, contact Teledyne Leeman Labs, 6 Wentworth Drive, Hudson, NH 03051. Telephone (603) 886-8400, Fax: (603) 886-9141 or email: LeemanLabsinfo@Teledyne.com.

For more information on our other products or services visit our website at:
www.LeemanLabs.com.