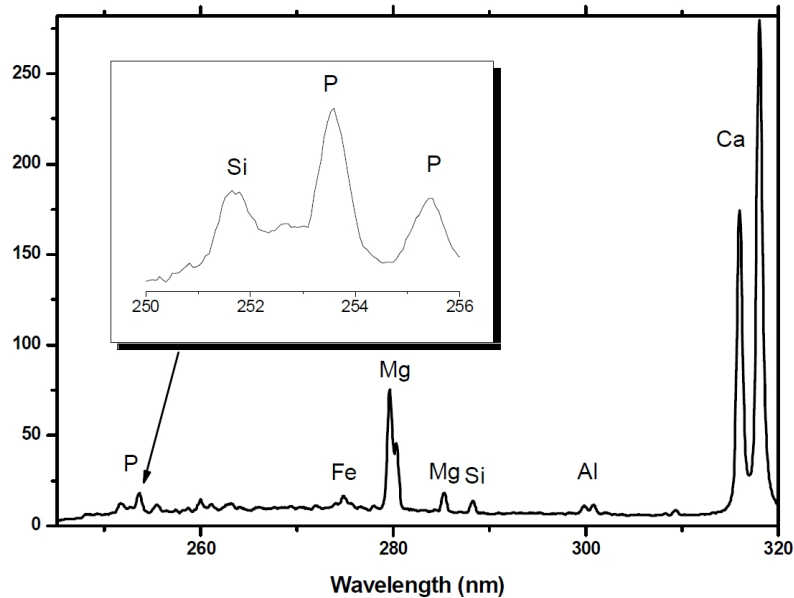


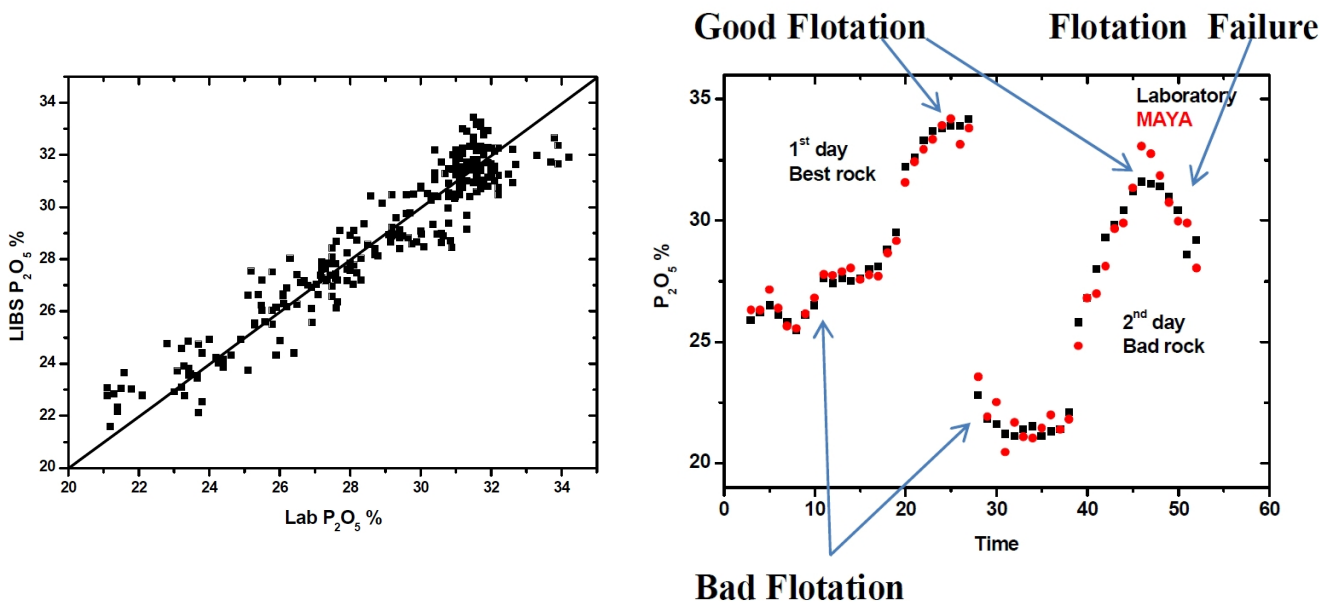
Report

Flotation reagents dosage in phosphate slurry beneficiation in Israel

- LIBS analyzer was used for slurry sandy powder with up to 35 % moisture. The main purpose was to indicate the yield of the beneficiation process by measuring P UV emission lines at 253.56 and 255.32 nm.



- The laboratory vs. LIBS analyzer results comparison based on 256 samples collected during half a year demonstrates $R^2 = 0.91$ and average absolute error $\pm 0.75\%$, relative error $\pm 2.6\%$.



- **Conclusion - on-line process optimization according to real time measurement is possible: flotation reagents can be added in real time regime.**