Tuesday, March 20, 2018 [T307]
POSTER SESSION I: MARS 2020 SUPERCAM CALIBRATION AND LAB RESULTS
6:00 p.m. Town Center Exhibit Area

Gómez-Nubla L. Aramendia J. Arana G. Rull F. Cousin A. et al. ***POSTER LOCATION #61***
Evaluation of the Elemental and Molecular Homogeneity of the Supercam Calibration Targets **[#2813]**
The homogeneity of samples to be used for calibration of M2020 SuperCam instruments is evaluated using XRF and Raman spectroscopy.

Fau A. Beyssac O. Gauthier M. Bernard S. Meslin P.-Y. et al. ***POSTER LOCATION #62***
Infrared, Time-Resolved Raman, and Luminescence Spectroscopy of Carbonates: Preparing for Mars 2020 SuperCam Instrument **[#2043]**
Infrared and time-resolved Raman-luminescence spectroscopy are combined to characterize carbonates and carbonate-bearing rocks relevant to Mars.

Fau A. Beyssac O. Benzerara K. Bernard S. Meslin P.-Y. et al. ***POSTER LOCATION #63***
Effect of LIBS Laser Shots on Mineral Structure and Raman Signature: Preparing for Mars 2020 SuperCam Instrument **[#2064]**
We analyze impact of LIBS laser shots on the structure and Raman signature of various Mars relevant minerals with special emphasis on hematite and other oxides.

Ollila A. M. Lanza N. L. Beyssac O. Gauthier M. Clegg S. et al. ***POSTER LOCATION #64***
Raman and Luminescence Spectroscopy of Manganese Minerals: Preparing for SuperCam, Mars 2020 **[#2786]**
In preparation for Mars 2020, characterization of manganese minerals has been conducted using Raman and luminescence spectroscopy.

Murdoch N. Lasue J. Chide B. Cadu A. Sournac A. et al. ***POSTER LOCATION #65***
Mars Microphone Testing and LIBS Acoustic Characterisation for the Mars 2020 Rover **[#1462]**
Results of the SuperCam LIBS-Mars Microphone system in the Mars environment will be presented, including LIBS acoustic emission from martian soil analogs.

Lepore K. H. Dyar M. D. Remi S. ***POSTER LOCATION #66***
SuperLIBS: A High-Capacity Laser-Induced Breakdown Spectroscopy System Analogous to SuperCAM Mars 2020 **[#1179]**
Quantitative LIBS / Requires large datasets / SuperLIBS can help.

Cousin A. Maurice S. Rull F. Fabre C. Sautter V. et al. ***POSTER LOCATION #67***
Characterization of the SuperCam LIBS Calibration Targets **[#2186]**
Onboard calibration targets for the SuperCam instrument (Mars2020) is of prime importance. Here we describe the microprobe and LIBS results of these targets.

Schröder S. Rammelkamp K. Vogt D. S. Frohmann S. Cousin A. et al. ***POSTER LOCATION #68***
Improving Minor and Trace Element Detection in Martian Targets with Time-Resolved LIBS **[#1962]**
Time-resolved LIBS can improve the sensitivity to detect weak and/or superimposed emission lines such as sulfur or hydrogen in martian data.