

## The EMC Effect –New Insights and Future Studies

*Saturday, 2 June 2018 10:10 (35 minutes)*

More than 30 years ago, the European Muon Collaboration provided evidence that quark distributions are modified in nuclei as compared to the free nucleon. The EMC Effect has been a subject of investigation, both experimentally and theoretically, ever since. To date, there is no universally accepted explanation of the EMC Effect, but recent results have given some exciting clues as to its possible origins.

This presentation will focus on recent measurements of the EMC Effect and the future program of measurements of the nuclear dependence of quark distributions. Some of these measurements aim to explore the EMC Effect via measurements of a number of as-yet unmeasured nuclei, while others will attempt to gain insight via new observables, predicted to have significant nuclear effects that will provide sensitivity to particular models of the EMC Effect.

### **E-mail**

[gaskelld@jlab.org](mailto:gaskelld@jlab.org)

**Primary author:** GASKELL, David (Jefferson Lab)

**Presenter:** GASKELL, David (Jefferson Lab)

**Session Classification:** Plenary 8

**Track Classification:** NFS