

Fundamental Data Breakout Report Out

- Do we need a more comprehensive look at the periodic table (to determine fundamental limits)
 - Many industry representatives felt the answer was NO, but this conclusion was based on experimental data collected under conditions that were not equivalent to optimized EUV source designs.
- Is 3% accuracy of Ionization Potentials enough?
 - Consensus is YES
- Do we need a modeling workshop?
 - Consensus is YES. Community can benefit from increased communication between the fundamental data groups, the source modelers, and the source suppliers.

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- Need for charge-dependent and angle-dependent data describing the impact of ions on surfaces, in addition to bulk plasma data.
- Encourage publication of data and early dissemination of unpublished data.
- Group feels that computation of fundamental data is an important problem for industry to support.
- Source suppliers feel that they can provide non-proprietary spectra for benchmarking.
- Need to model gas mixtures in addition to single species gases.
- How much configuration interaction is needed?
- In addition to having complete models that determine fundamental limits on output power, etc, it would be useful to have simple codes that can be used by the source suppliers on a day-to-day basis to optimize source performance.