Potential glossary:

Ideal solution

Chemical potential

Free energy

Thermodynamic equilibrium

Enthalpy(?)

Chemical system(?)

Chemical state(?)

Volume fraction(?)

Much like an electrical current flows from regions of high to low electrical potential energy, or fluid flows from regions of high to low mechanical potential energy, chemical substances migrate from regions of high to low chemical potential.

Questions for David:

I was wondering

Can we replace volume fractions with molar concentrations? As far as I can tell this should be fine, as long as the mass conservation term is adjusted appropriately, e.g. for volume fractions you might have:

total = monomer + dimer

but for molar concentrations you would have:

total = monomer + 2 \* dimer

I guess this will change the units of the energy terms too.