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Frederick P. Gardiner* (frederick.gardiner@gmail.com), Brooklyn College CUNY,
Brooklyn, NY 11210. *The minimum Dirichlet principle for measured foliations, Teichmüller lines
of minima and the associahedron.* Preliminary report.

We explain what is the minimum Dirichlet principle for measured foliations on a Riemann surface of finite analytic type, what is the extremal length of a measured foliation, what are Teichmüller lines of minima and how they apply to the geometry of Stasheff's associahedron. (Received December 13, 2007)