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**Nathan S Sunukjian\*** ([nsunukjian@math.sunysb.edu](mailto:nsunukjian@math.sunysb.edu)). *Generalized surgeries on 4-manifolds and surface concordance*. Preliminary report.

Exotic smooth structures on 4-manifolds are typically constructed through one of the following techniques: knot surgery, log transform, rational blowdown, and Gluck twist. These are all surgeries that depend on finding surfaces in the manifold. This talk will discuss a generalization of these surgeries, the obstacles to using generalized surgeries to construct exotic manifolds, and, time permitting, discuss the role played by surface concordance. (Received June 27, 2011)