I. CONTROLLED-CURRENT SWITCHING OSCILLATOR: -by Ian Fritz

Fig. Il shows a fairly simple way to implement a controllable current-swtiching oscillator: start with a balanced differential integrator, rob relative current from either side with a differential amplifier, and feed back the resulting ramp through a Schmitt trigger. The differential amp and Schmitt trigger can be done with a transistor array. A similar idea could probably be used for filters: a quad BiFET and two transistor arrays might give you a decent four-pole. The oscillator

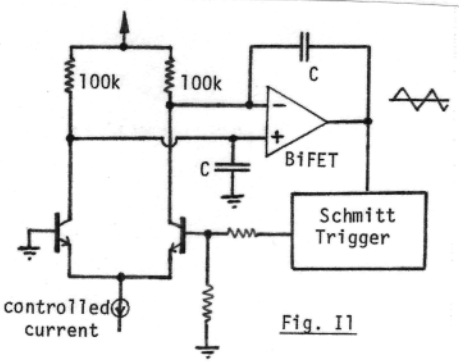

Fig. Il

works, but I haven't checked for exponential tracking or temperature drift. I would be interested in hearing whether others think this idea is worth pursuing.