THE LAST FIVE years of the ISSCC has seen several emerging concepts in biochemical sensing, a new field believed by many to have enormous opportunities. Caillat et al. (CEA-LETI) in 1998 presented the concept of active CMOS biochips through electrically addressed DNA probes. While several DNA biochips integrated with CMOS electronics have now been demonstrated, many MEMS researchers feel the new fields of genomics and proteomics will be revolutionized by incorporating biological materials onto integrated circuit arrays.