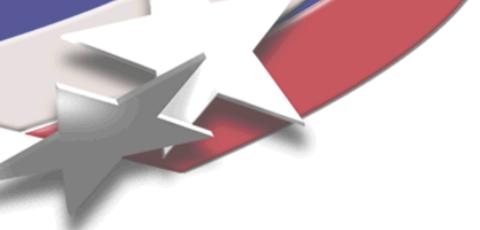


Accelerometer structure

9/13/2010

Anton Filatov

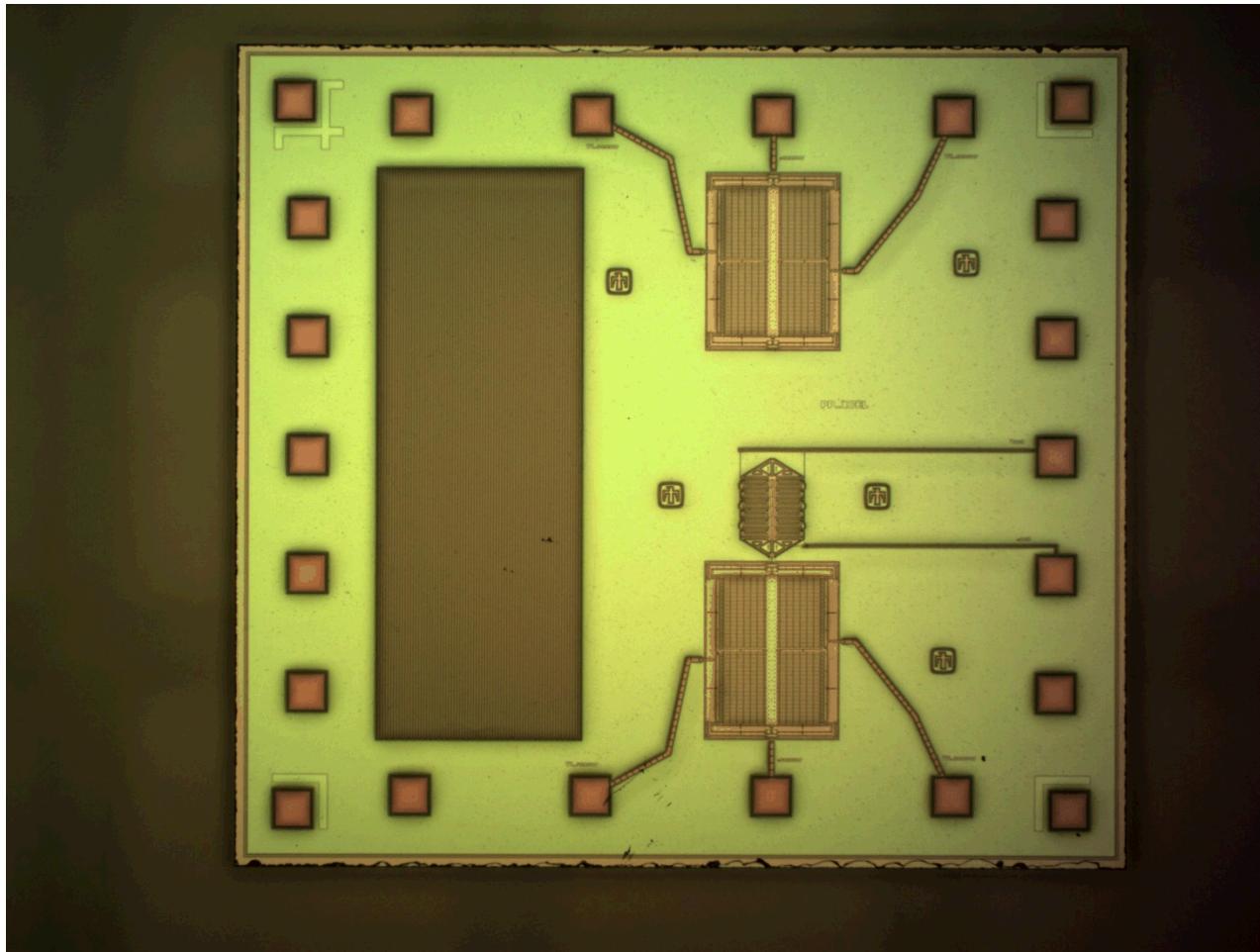


Accelerometers

- Two kinds of devices
 - Parallel plate
 - Comb finger
- Each die has
 - Accelerometer
 - Accelerometer w/ attached actuator
- Actuator is a comb finger design (electrostatic)
- Whole die is ~3mm x 3mm
 - Stand by for more precise dimensions of individual features

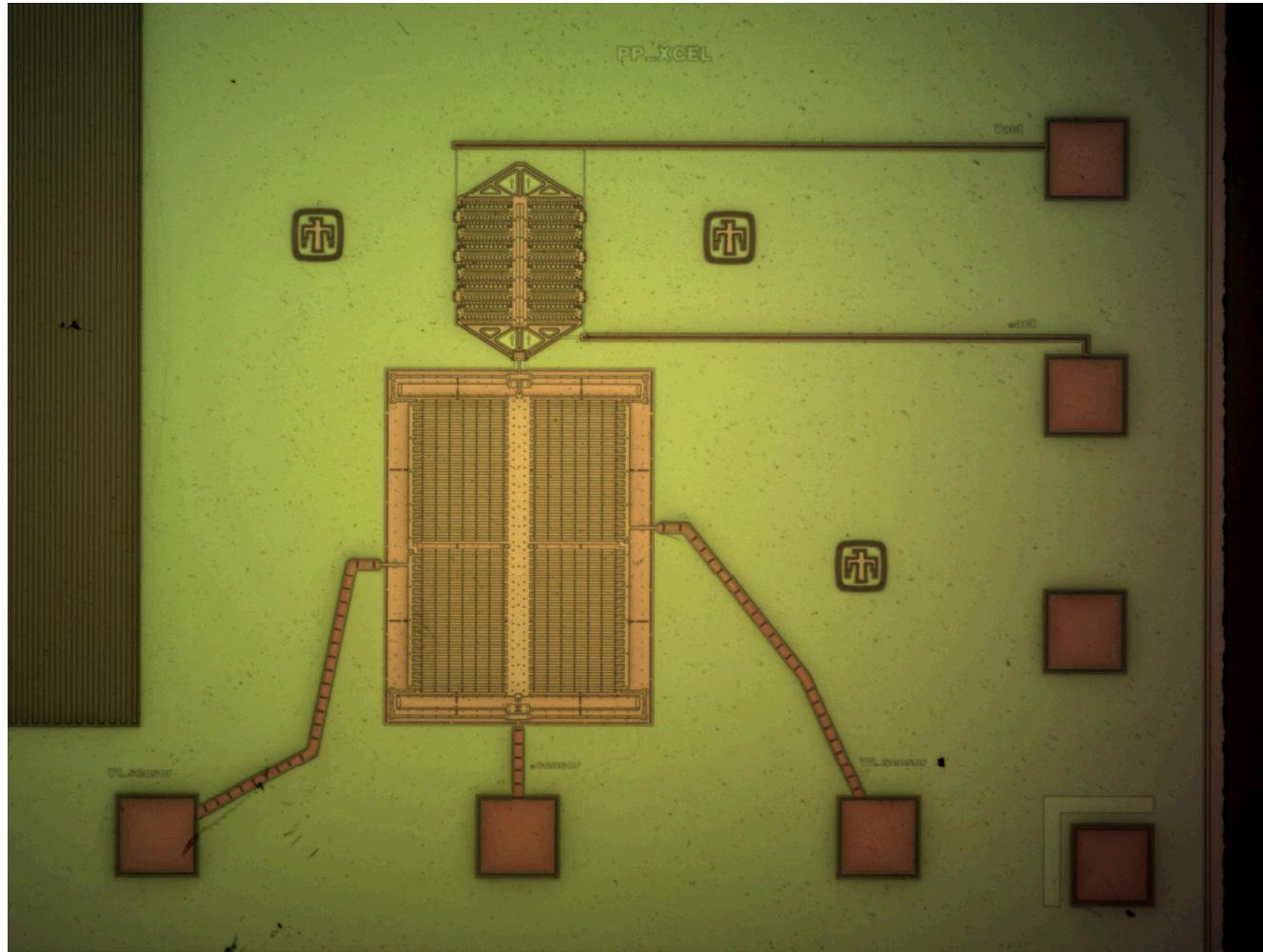


Parallel Plate Accelerometer Die

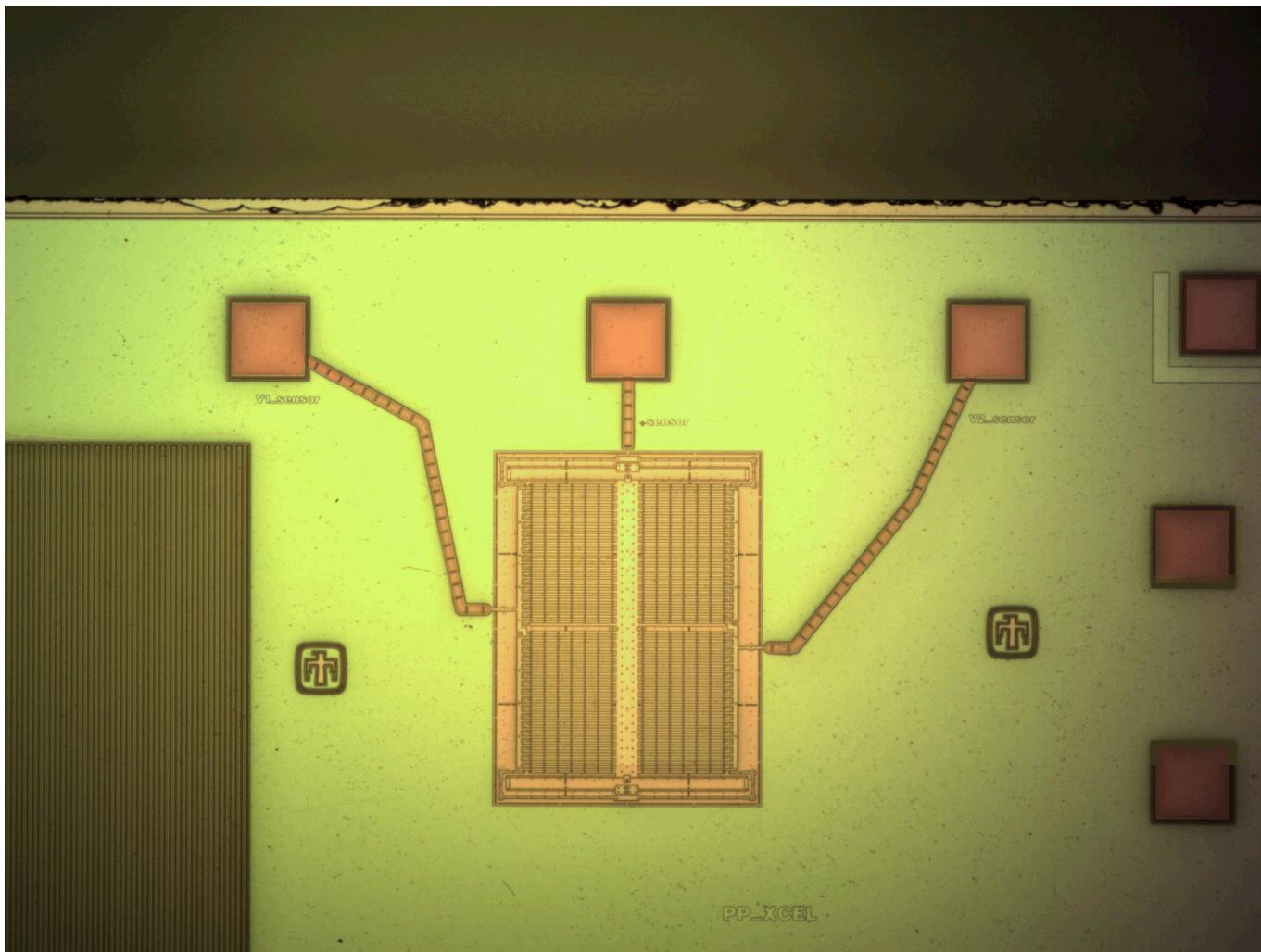




Parallel Plate Accelerometer w/ Actuator

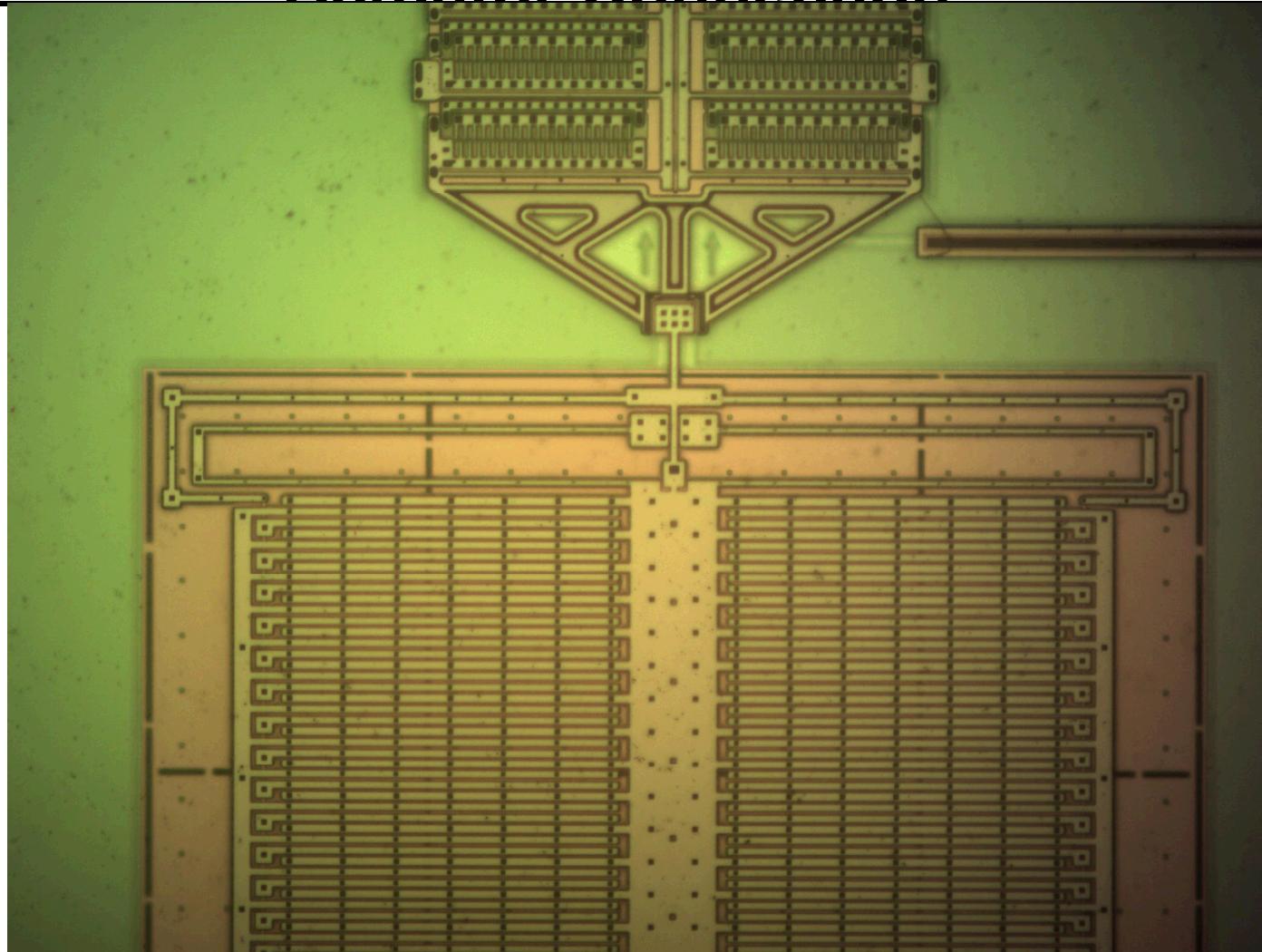


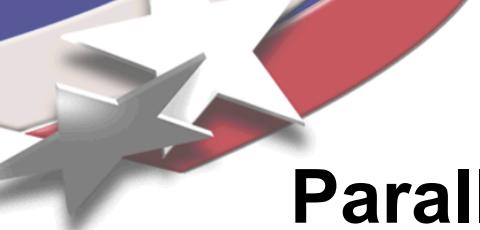
Parallel Plate Accelerometer, w/o Actuator



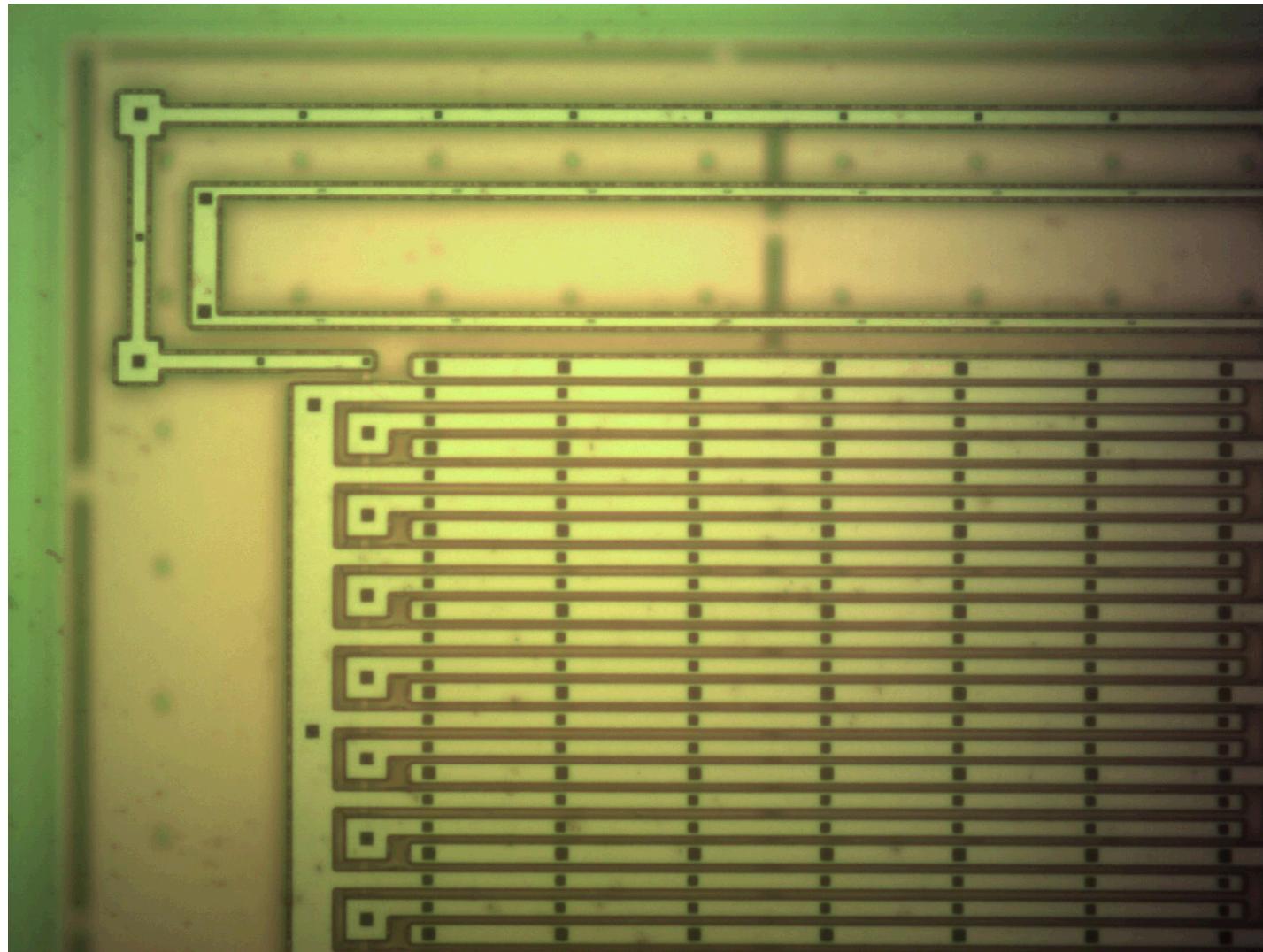


Parallel Plate Accelerometer, Detail of Actuator Connection



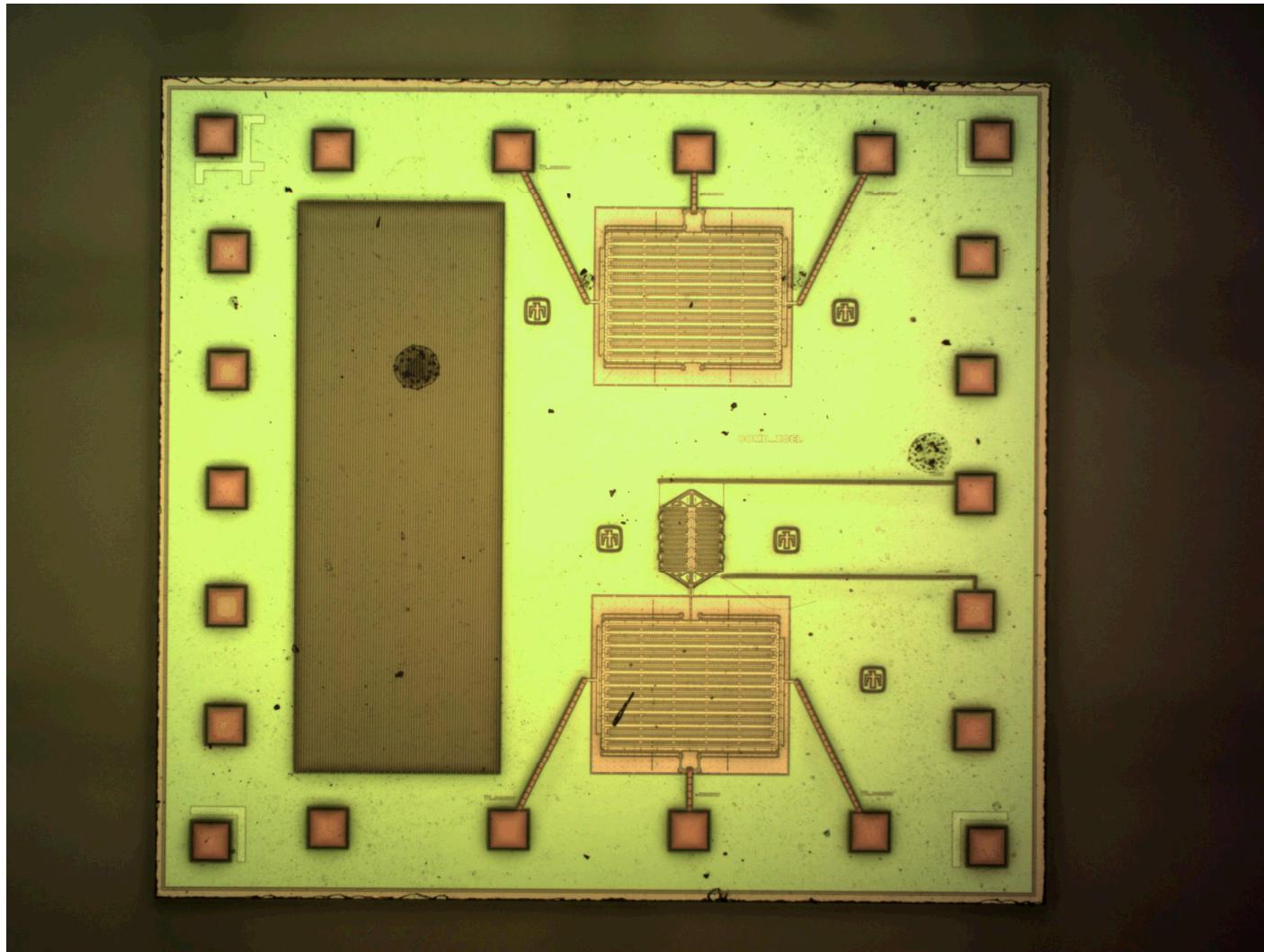


Parallel Plate Accelerometer, Detail of Sensor

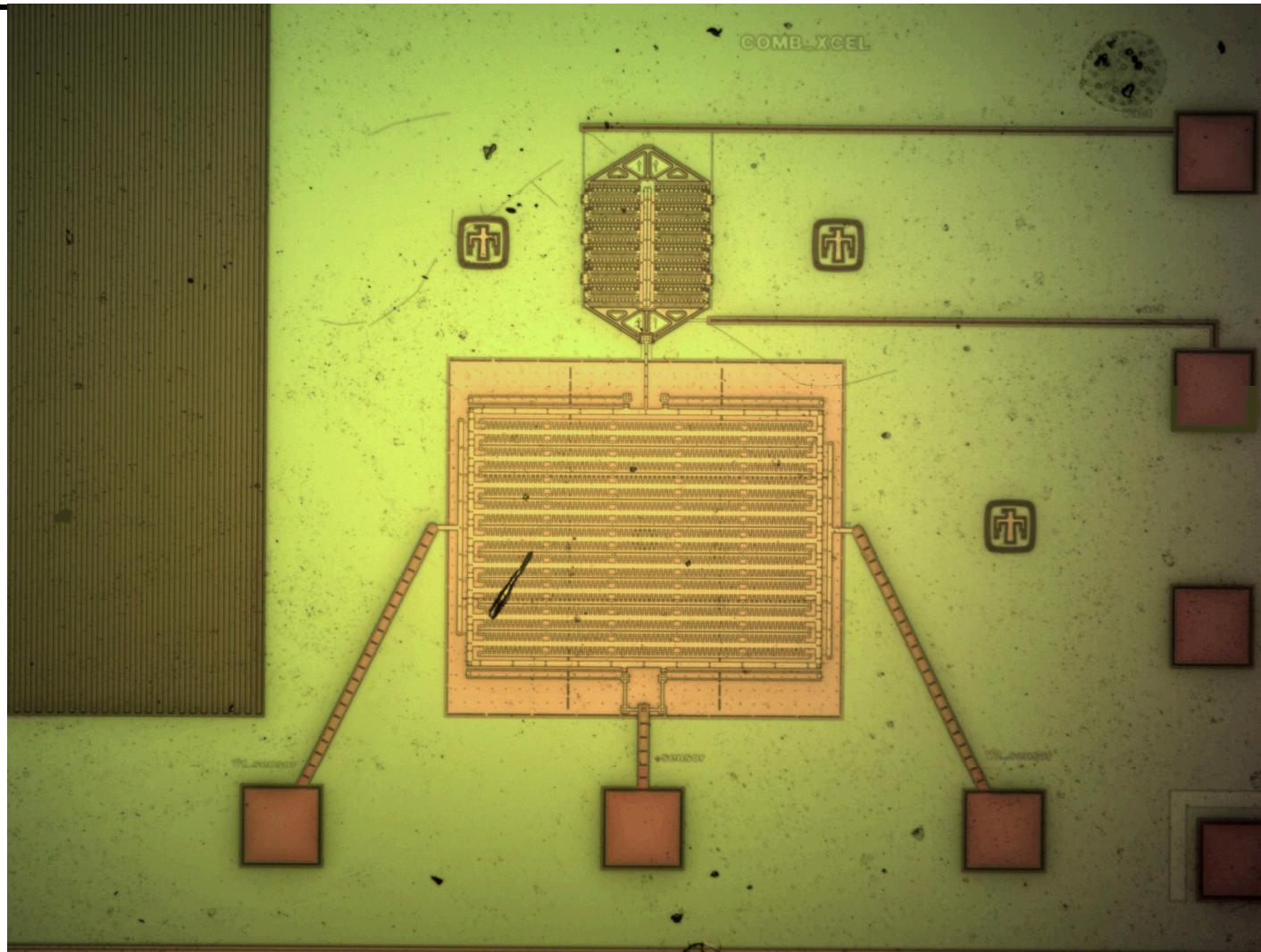




Comb Finger Accelerometer Die

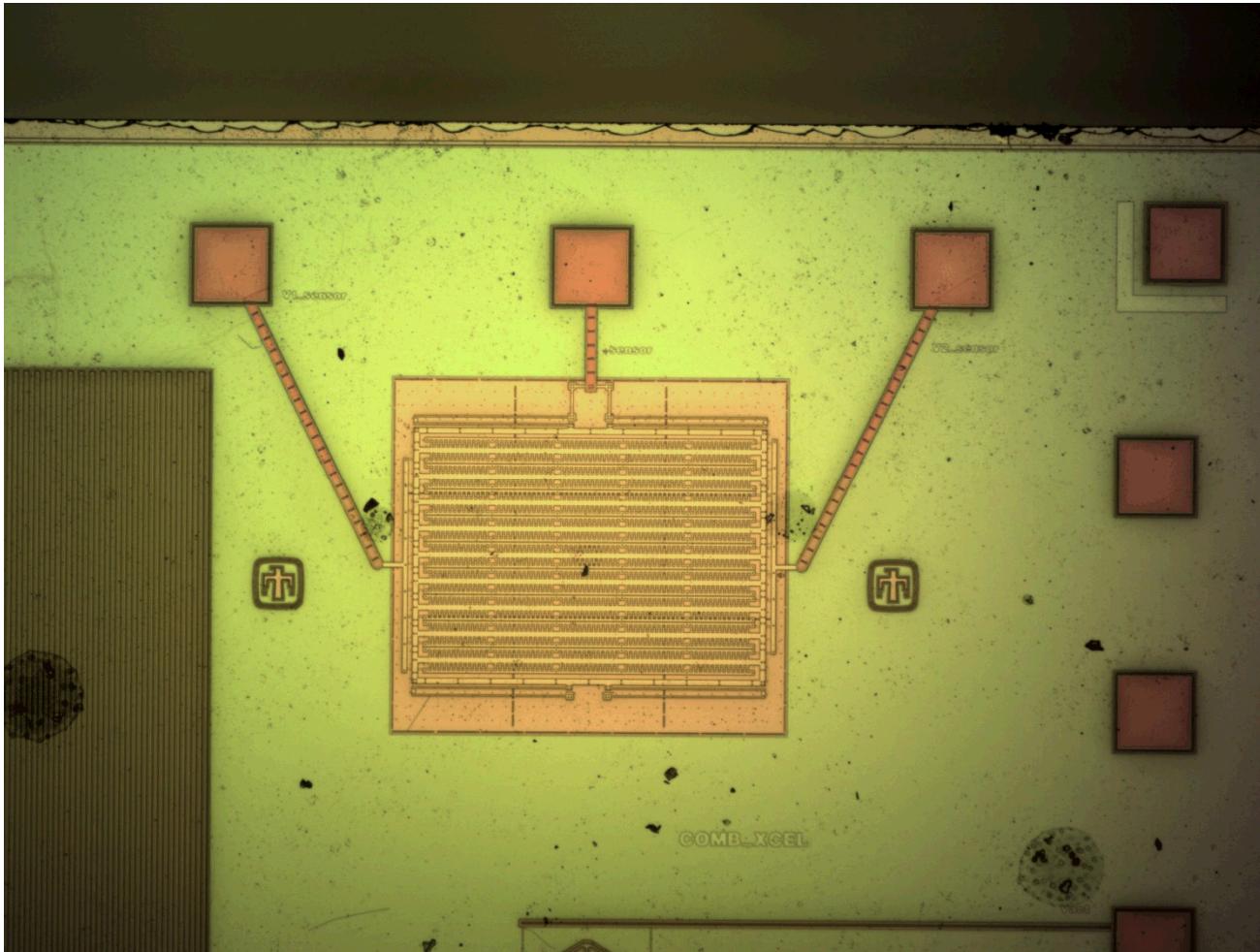


Comb Finger Accelerometer w/ Actuator





Comb Finger Accelerometer, w/o Actuator





Comb Finger Accelerometer, Detail of Sensor

