

Ångström Space Technology Centre

- microtechnology for space

Background

- est. in 2000
- academic *spin off*
- staff of 10-15

Characteristics

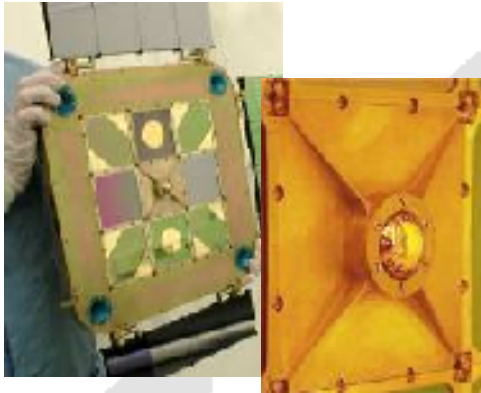
- multi- and interdisciplinary
- innovative
- application oriented
- systems oriented
- collaborative



Newsweek

Some device examples

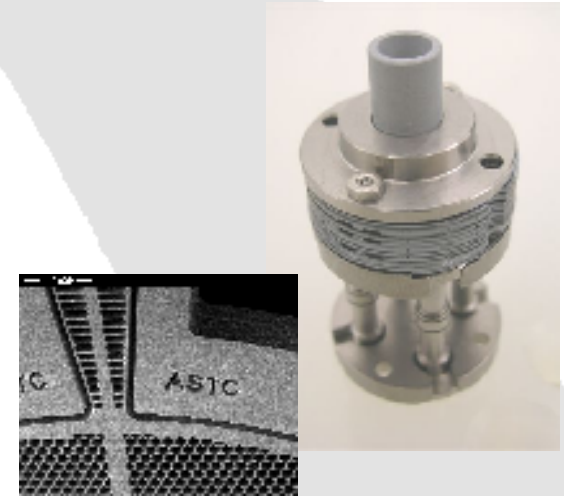
Sun sensor



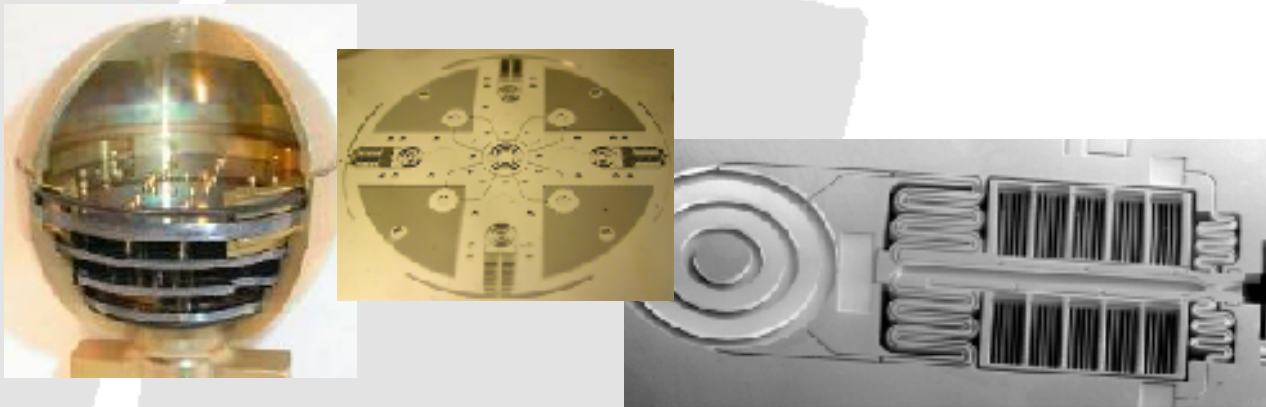
RF communication module



Catalytic kick motor



Cold gas thrusters



Flow meter



“An attospacecraft on a leash” ...

... or: a beacon for location and angle determination of tether tip
proposal by ÅSTC and P. Janhunen

- autonomous
- directional optical transmitter
- cylinder-shaped
- diameter: 20 mm and length: 20 mm
- mass: <5 g
- solar cell
- battery or capacitor for energy storage
- intensity modulated or wavelength specific
- angle determination with multibeam transmitter
- est. power 50 mW per diode
- current design operational for missions up to 1 AU

