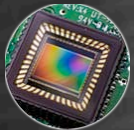
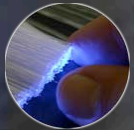


1. How can you measure ...

*... strain and torsion
on turbine blades?*

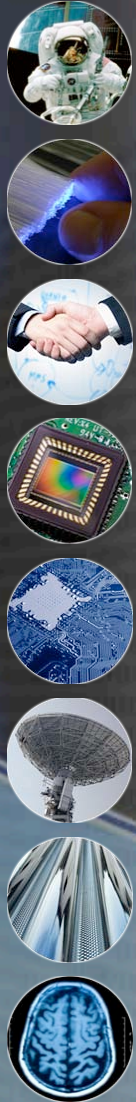




2. How can you measure ...

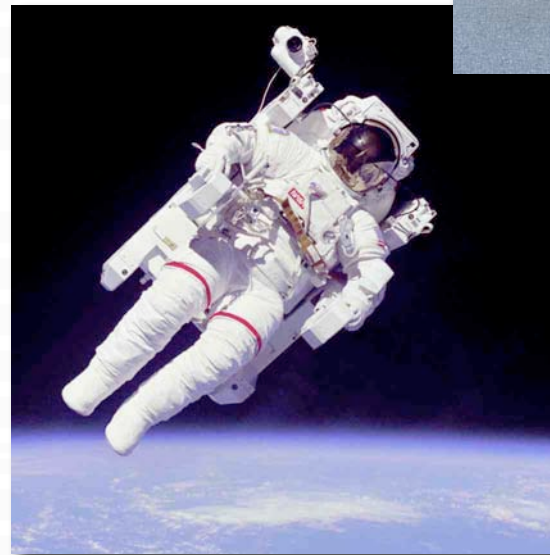
... extreme temperature ranges?

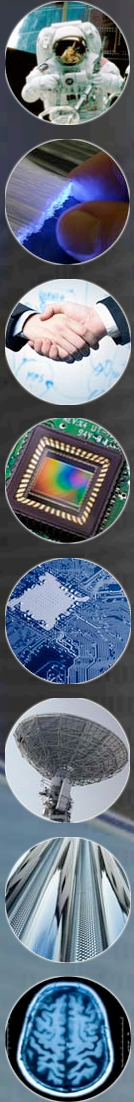




3. How can you measure ...

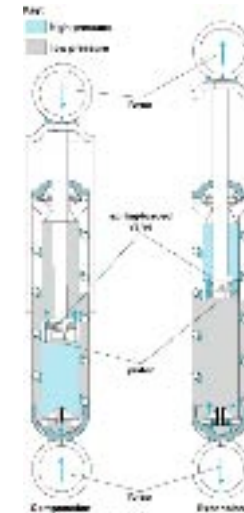
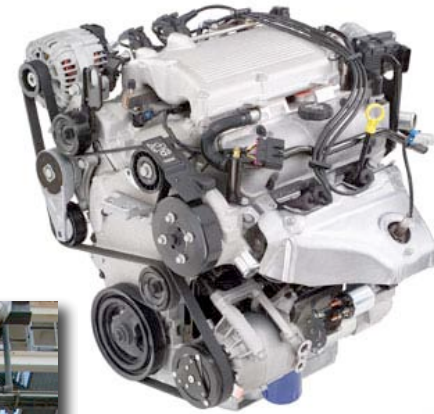
*... life-critical
environmentals?*

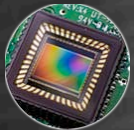
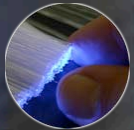




4. How can you measure ...

... in hard to reach places?

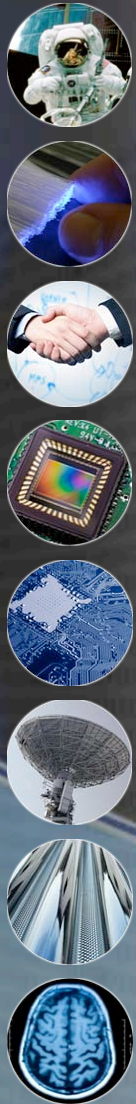




5. How can you measure ...

... things you need to count on?





HOW? Surface Acoustic Wave (SAW) sensors

SAW ...

... passive, no batteries

... small, thin footprint

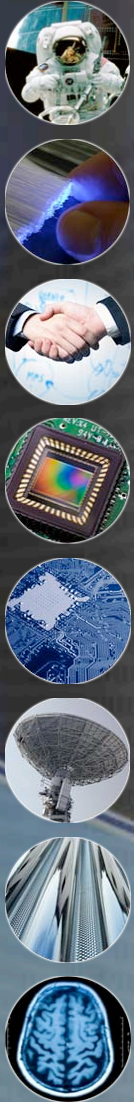
... wireless transmission

... -150°C to +1,000°C operation

... environmentally tough

Existing technology

fuentek



SAW devices are not new

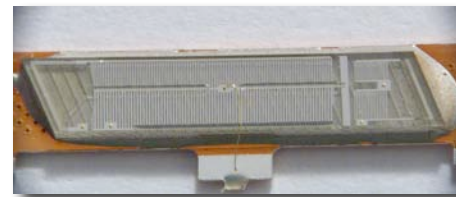


PHONON
CORPORATION



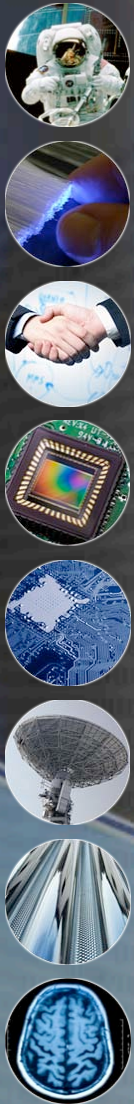
VI **VECTRON**
INTERNATIONAL
A DOVER COMPANY

SENGENUITY
sensor engine technology

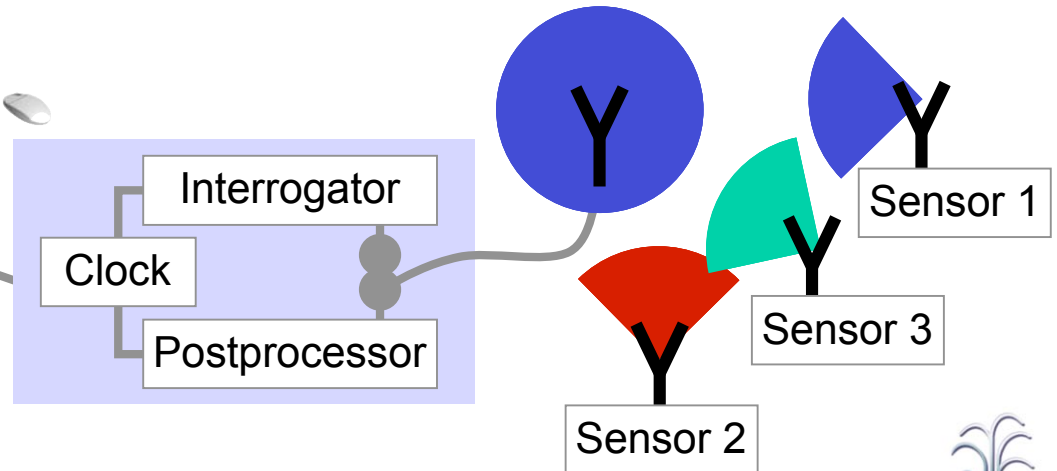
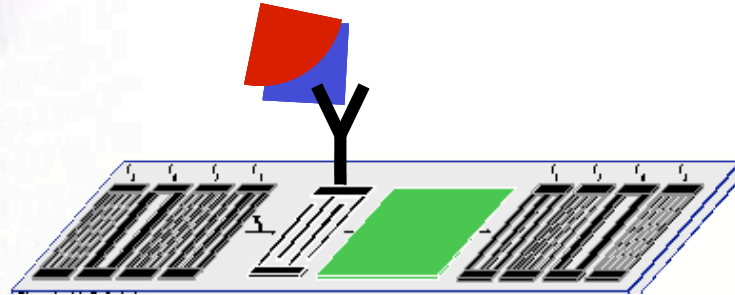


New innovation

fuentek

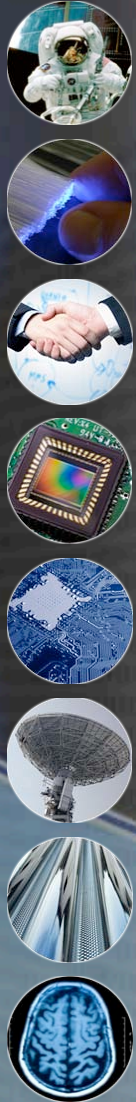


SAW sensor arrays ARE new

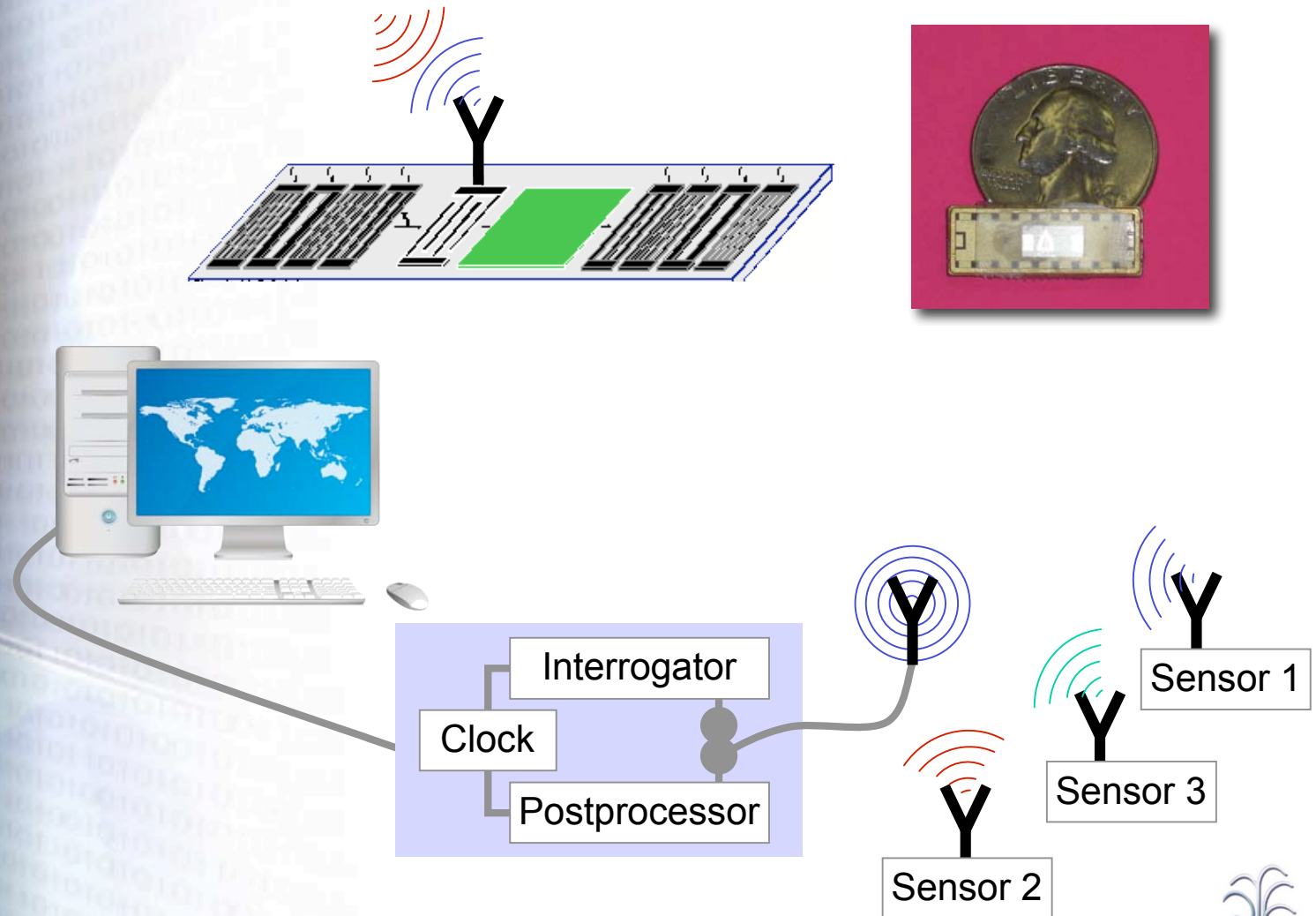


New innovation

fuentek

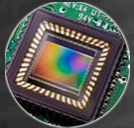
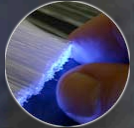


SAW sensor arrays ARE new



Proven concept

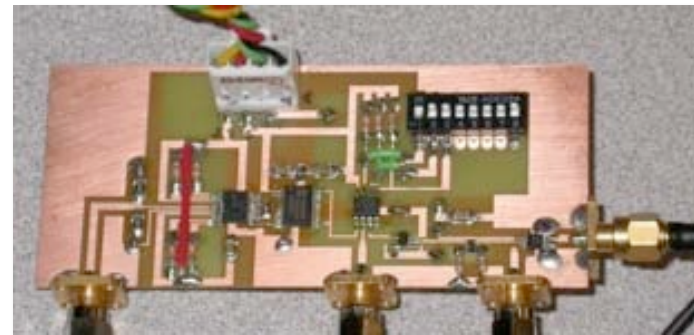
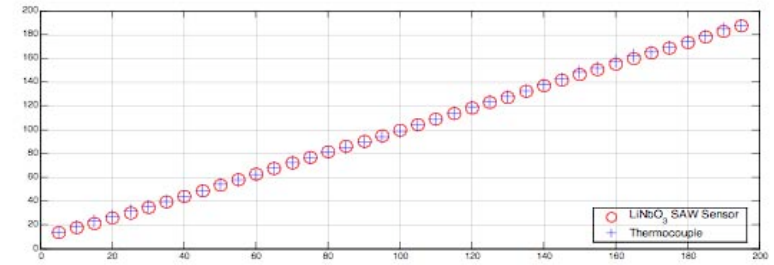
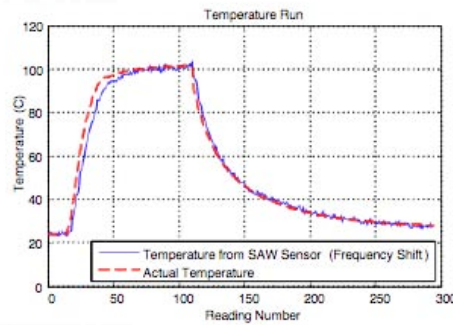
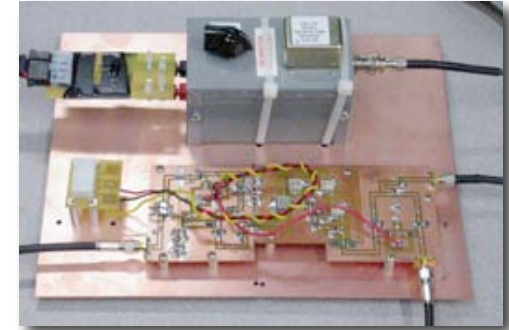
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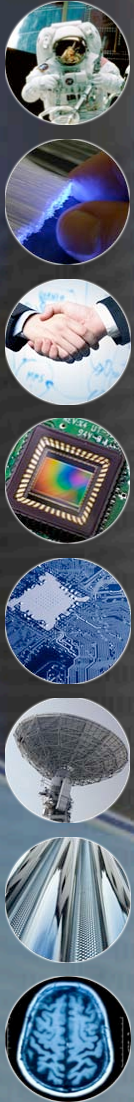


It works – Phase 1 STTR

small business
innovation research
small business
technology transfer

SBIR
STTR





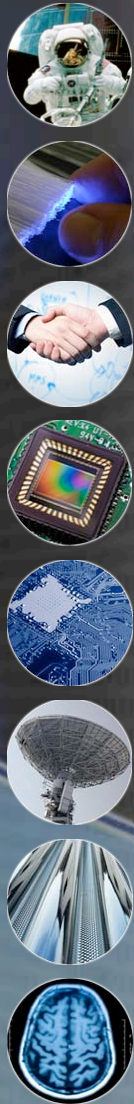
Demo – Phase 2 STTR

small business
innovation research
small business
technology transfer

SBIR
STTR



July 2011: portable demo unit



STTR opportunities

Phase 2

... demo by summer 2010

Phase 3

... NASA program sponsorship

... “real world” field testing

... several sensors ready ...

... more sensors to be tested

Interested?

fuentek



Contact:

Doug Foster
Fuentek, LLC

(919) 249-0327

www.fuentek.com/technologies/SAW.htm