

# Presenting with Power: Effectively and Dynamically Communicating Your Research

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UROP Workshop Series

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# 80% of Your Presentation Will Be Forgotten

- People tend to remember
  - Tone
  - Pace
  - Nonverbal expressions

# Planning Your Presentation

- What key points do you want your audience to remember?
- Structure your talk around the points and find ways to illustrate them.
- Have a clear beginning, middle, and end to your talk.

# What? Why? How?

- The purpose of a research presentation is to summarize
  - **WHAT** you have been working on
  - **WHY** it is important
  - **HOW** you conducted your research

# Customize Content for the Audience

- Who will be in the audience?
- What are their expectations?
- Are you presenting new material or building upon prior knowledge?
- How many attendees?
- Will the talk be interactive?
- How much time is allotted for the talk?

# Content Guidelines for a Research Presentation

- Title slide (Highly descriptive title)
- Acknowledgements
- Research Question or Objectives/Goals
- Background
- Methodology (or Technical Approach)
- Results
- Discussion of Results
- Conclusions
- Future Work
- Questions slide

# PowerPoint Do's

- Include a descriptive title/heading line on every slide.
- Keep slides simple and uncluttered by using short phrases, not long sentences.
- Use consistent capitalization and punctuation on all slides.
- Use consistent verb tense on all bullet items.
- Number your slides.

# Choosing a Font


## Easy

san serif 

block **t**

bold **a**

## Difficult

serif 

italics *t*

plain a

---

## Examples:

helvetica  
arial

sit  
sit



## Examples:

times  
New York



sit  
sit



# Effective Font Size

Too small!

This is Helvetica 12 point (normal text)

This is Helvetica 18 point

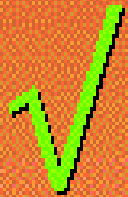
This is Helvetica 24 point

This is Helvetica 36 point

This is Helvetica 48 point

# To Upper Case or to Lower Case, That is the Question

A MIXTURE OF UPPER AND LOWER CASE LETTERS IS EASIER TO READ QUICKLY AND ACCURATELY, AND TAKES UP LESS SPACE ON THE SLIDE.



A mixture of upper and lower case letters is easier to read quickly and accurately, and takes up less space on the slide.

# Choosing the Right Contrast and Colors

- White background with dark text is the norm at professional conferences.
- Dark backgrounds with light text project well.
- Red, orange, or blue lettering become unreadable when projected on dark background.
- Avoid “busy” slide designs, those with distracting borders or graphics; keep it simple and “clean.”

# When to Show & When to Tell

- Make use of visuals wherever you can!
- People like to **see** what you're doing:
  - Diagrams
  - Photos
  - Flow charts
  - Tables
- Use text when you present concepts that you can't show or when words help to describe the visual.

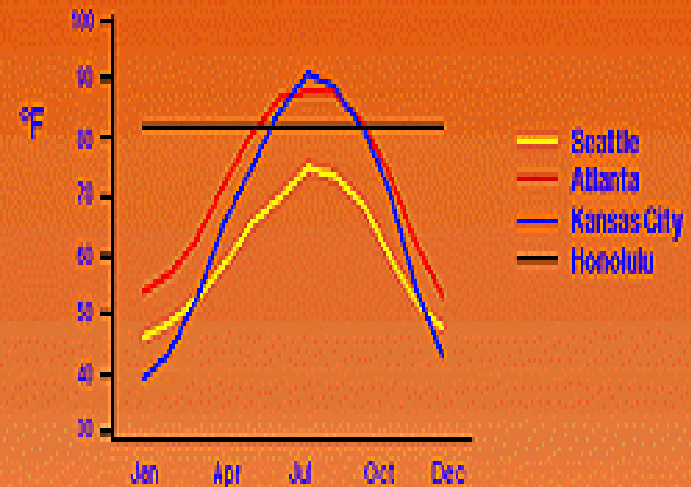
Let's look at some  
examples of  
**effective**  
use of graphics

# How to Show Effectively

Average monthly high and low temperatures in four U.S. cities

	Seattle	Atlanta	KansasCity	Honolulu
January	46/67	54/36	39/22	82/73
February	49/68	57/37	44/26	82/73
March	53/40	63/41	53/33	82/73
April	59/44	72/50	66/45	82/73
May	66/49	81/59	75/55	82/73
June	70/53	87/66	85/66	82/73
July	75/56	88/69	91/71	82/73
August	74/56	88/69	89/69	82/73
September	69/53	83/63	82/60	82/73
October	60/48	74/52	71/49	82/73
November	52/42	62/40	54/35	82/73
December	48/39	53/35	43/27	82/73

Average monthly high temperatures in four U.S. cities



Average high temperatures for winter months in four U.S. cities

	Seattle	Atlanta	KansasCity	Honolulu
November	48	62	54	82
December	52	53	43	82
January	46	54	39	82
February	49	57	44	82

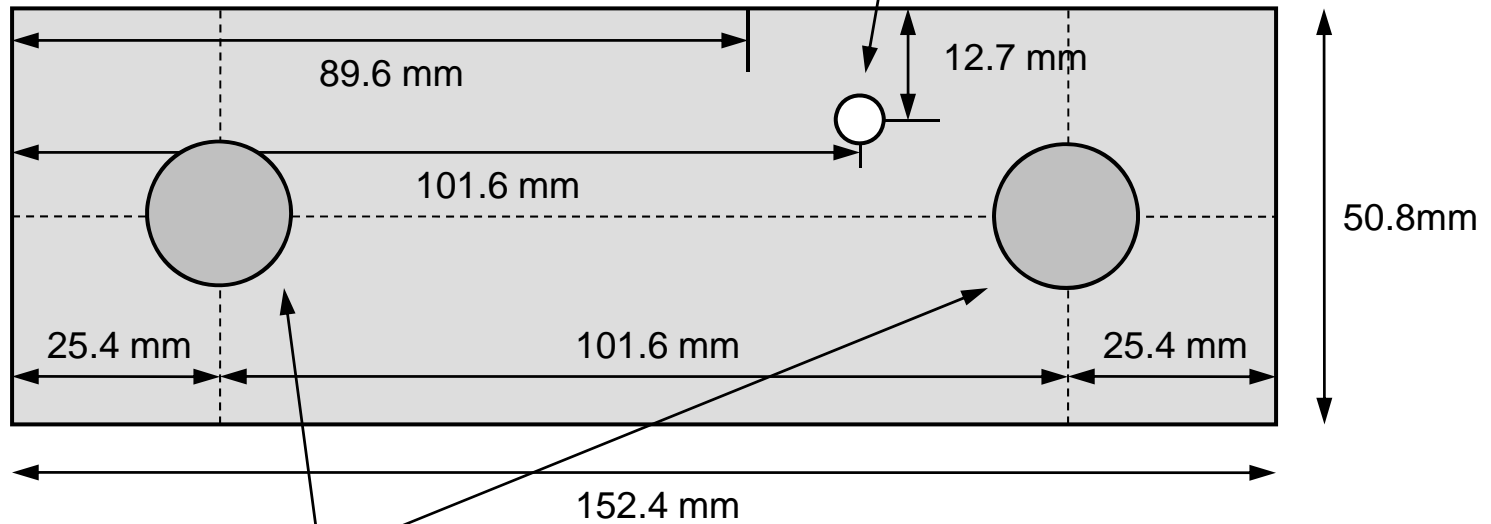
# What Works

## Specimen #1

6.35mm/0.25" long edge notch introduced in 10 length increments (notch width of 0.025mm/0.01")

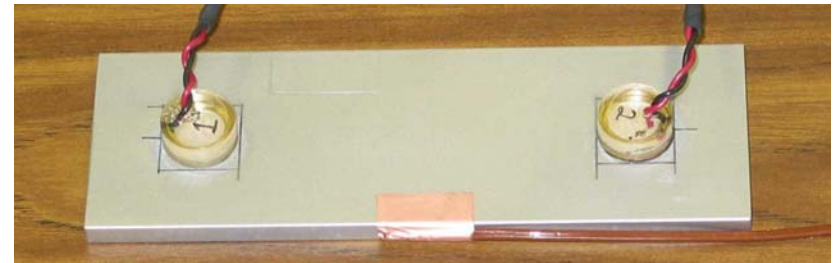
## Specimen #2

6.35mm/0.25" diameter hole drilled in 11 increments

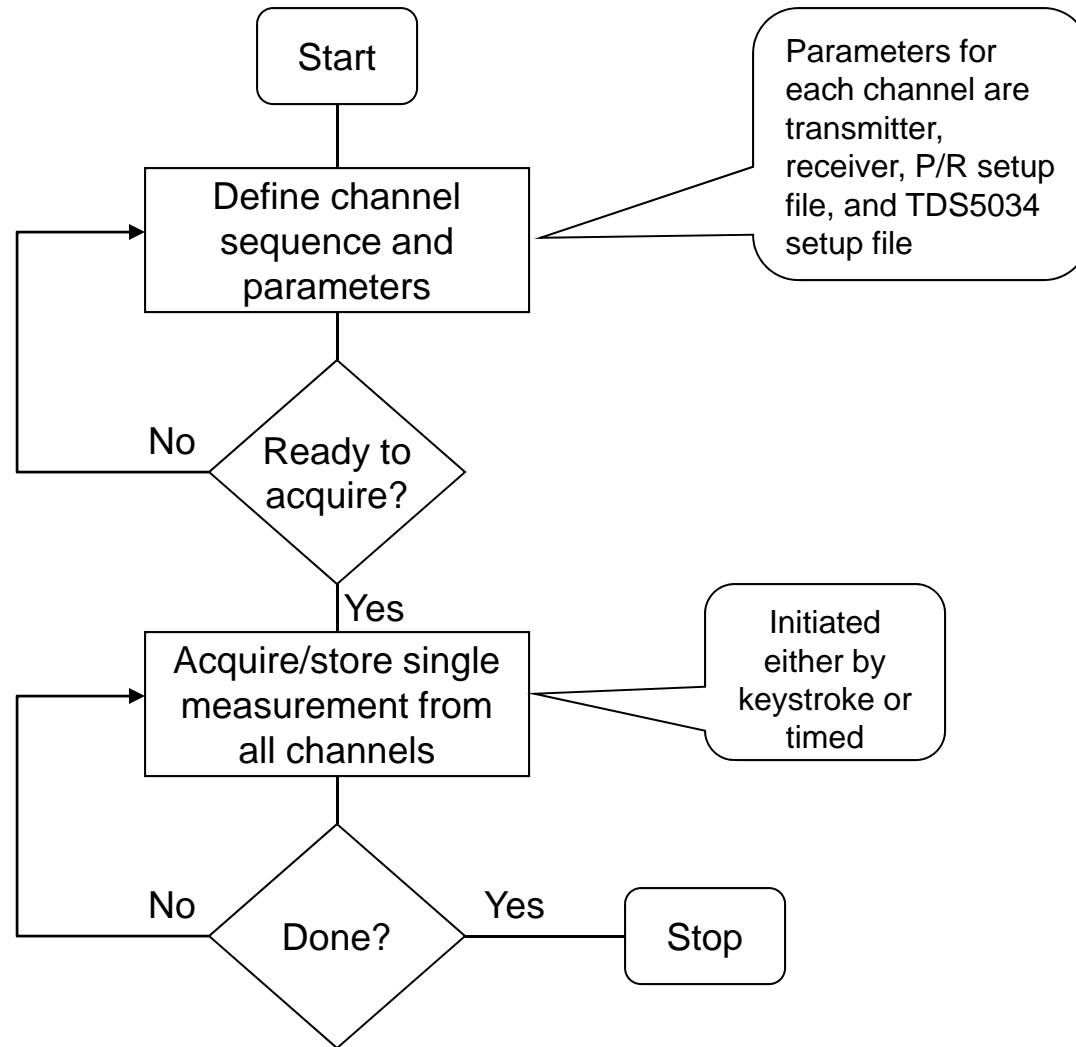


Aluminum  
50.8mm x 152.4mm  
x 4.76mm  
(2" x 6" x 3/16")

2.25 MHz, 12.7mm  
diameter piezoelectric  
discs bonded to top  
surface

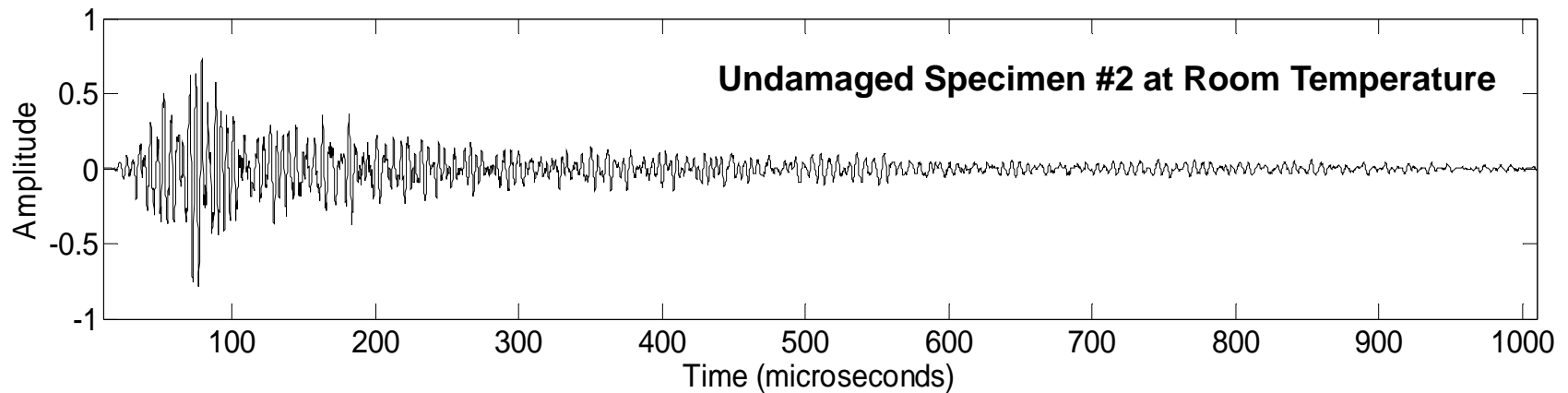
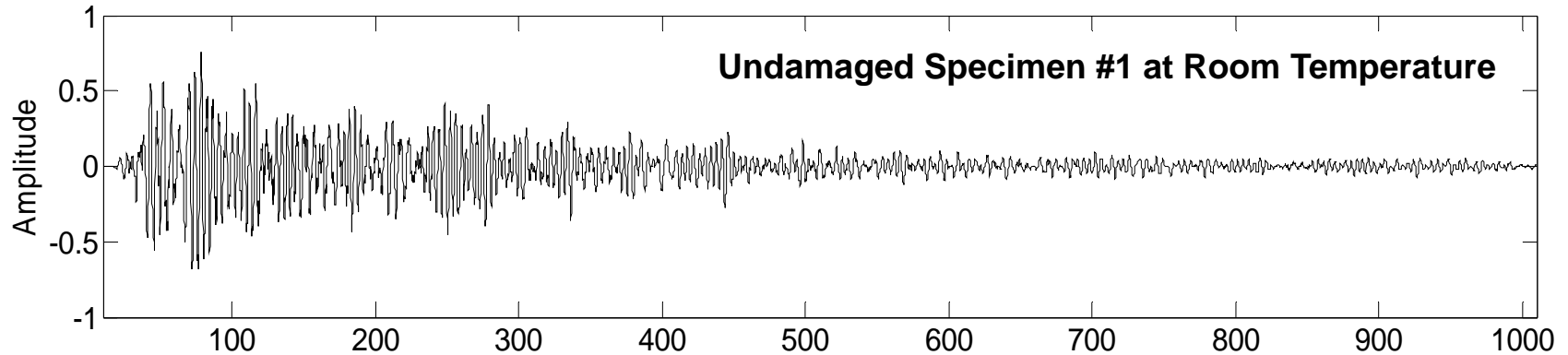


# “High Level” Flow Chart



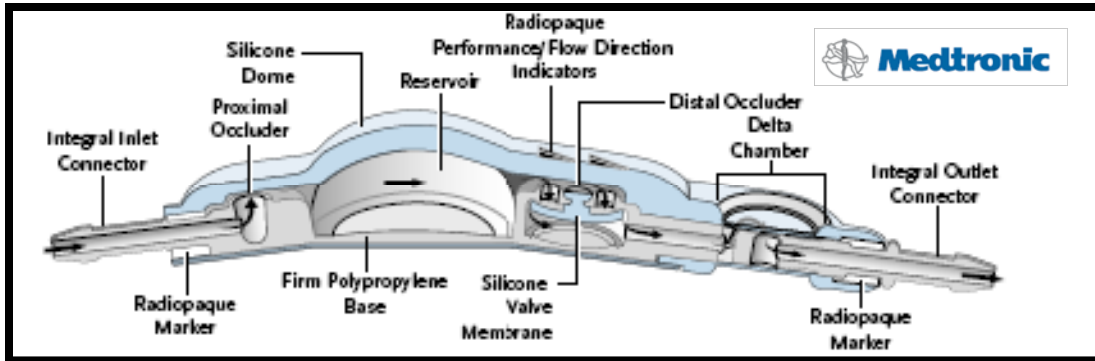


# Ultrasonic Signals from Nominally Identical Samples

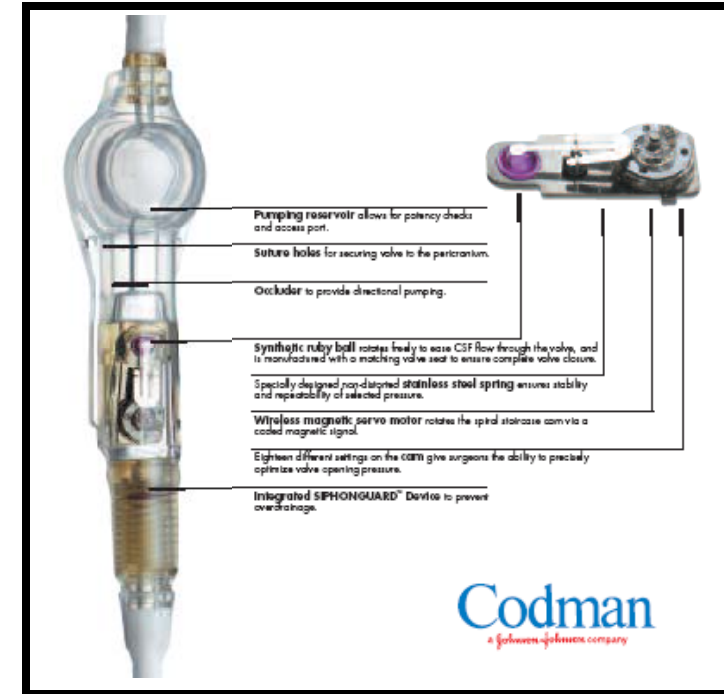


And here's what  
**doesn't work**

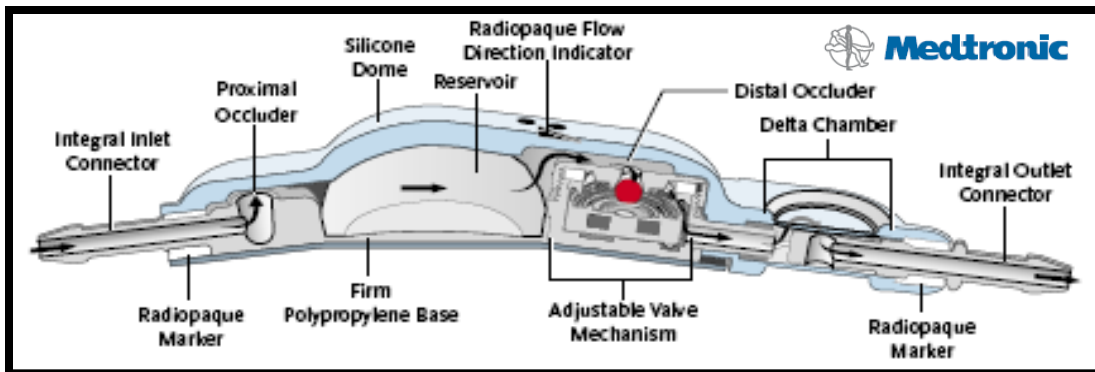
# What Doesn't Work



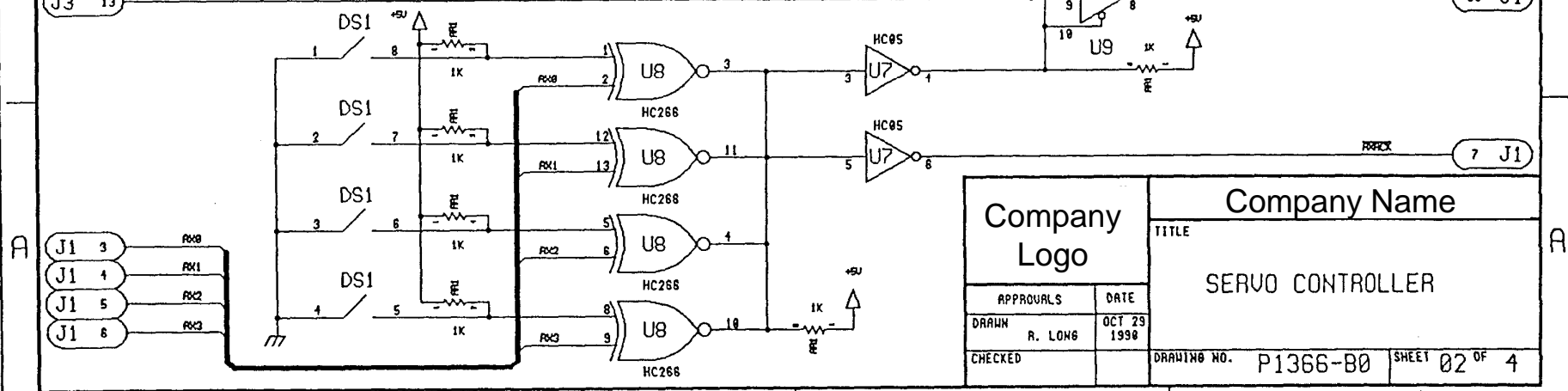
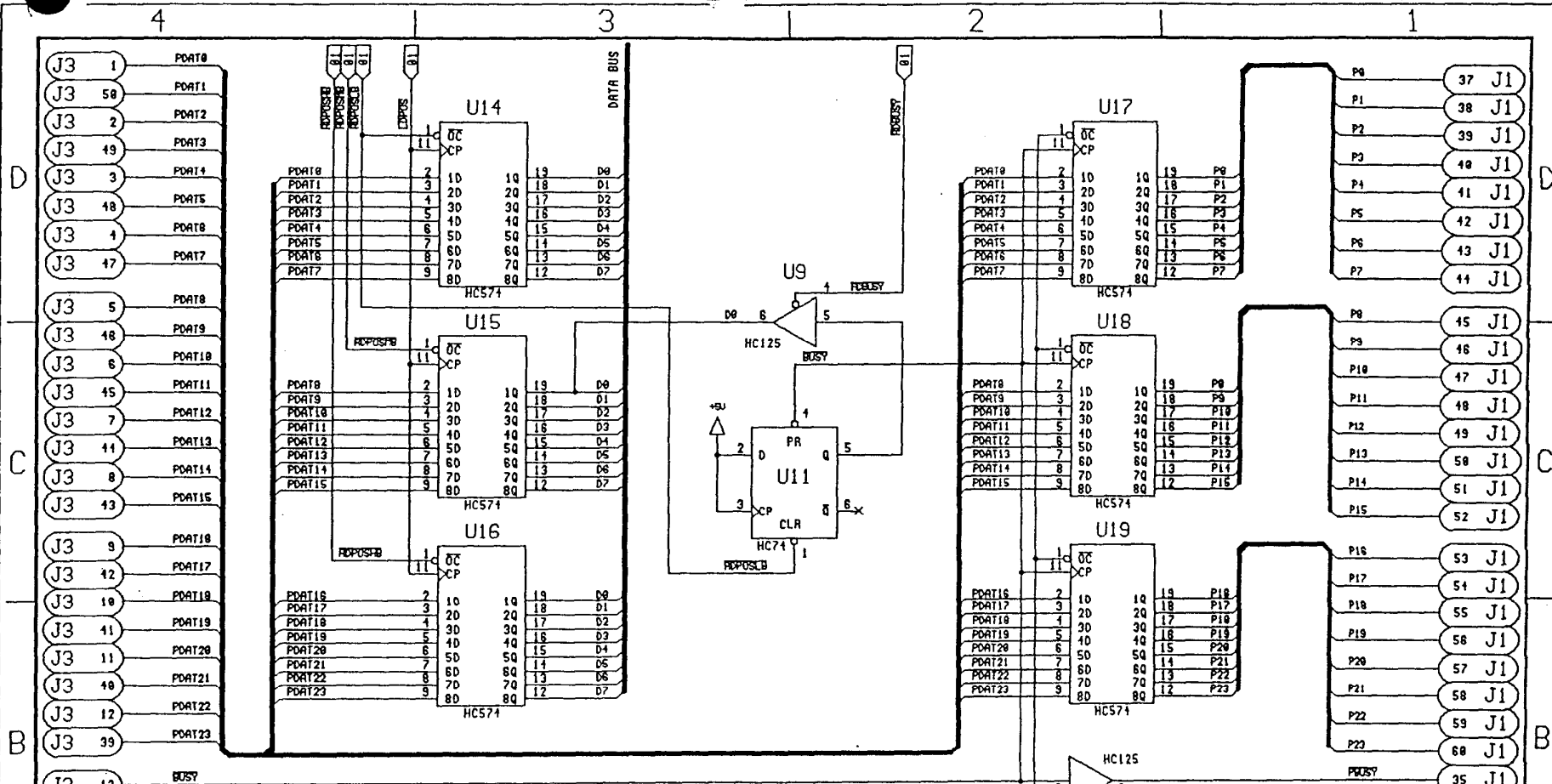
Medtronic Delta Valve

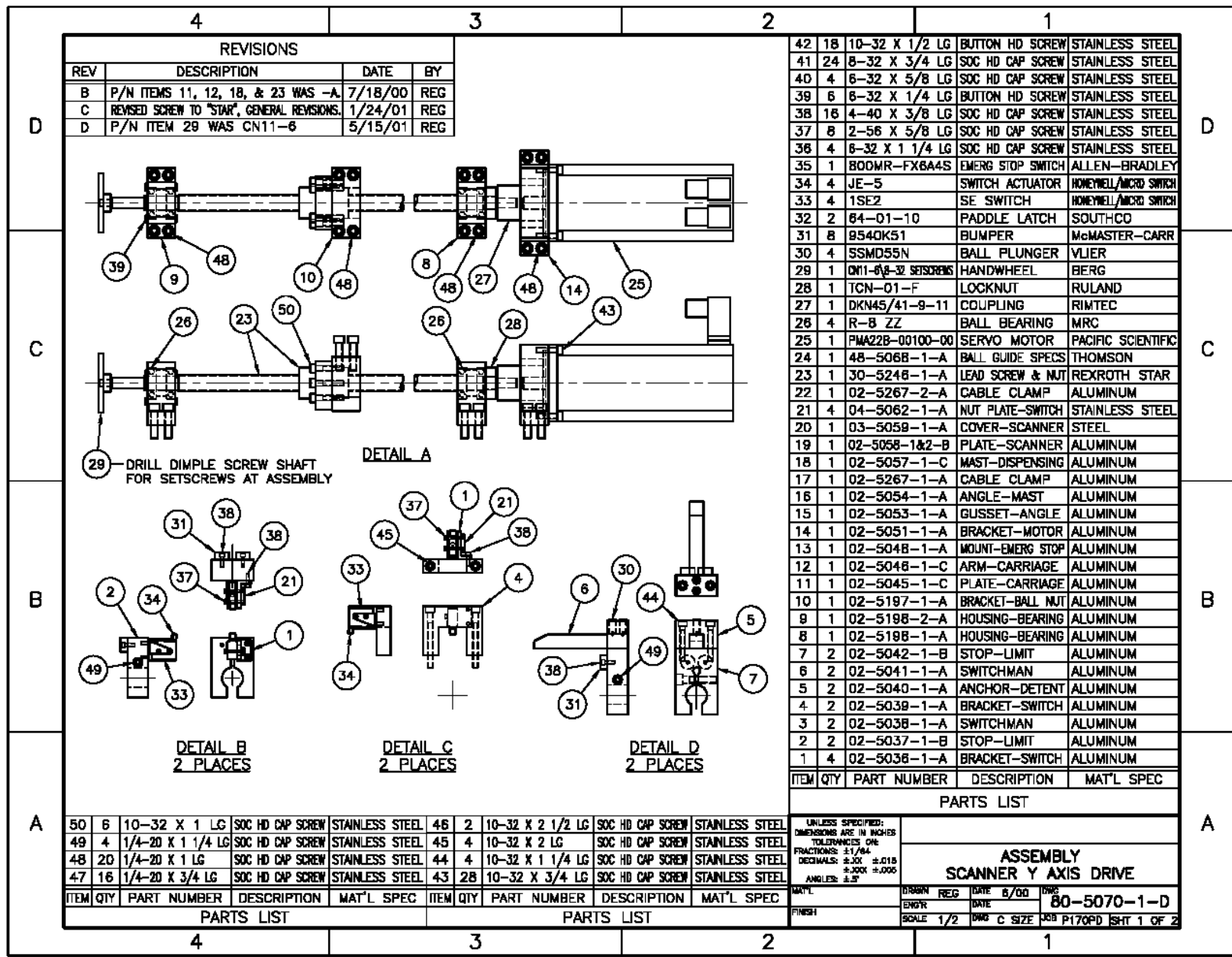


Codman Hakim Programmable Valve



Medtronic Strata Valve





REVISIONS			
REV	DESCRIPTION	DATE	BY
B	P/N ITEMS 11, 12, 18, & 23 WAS -A.	7/18/00	REG
C	REVISED SCREW TO "STAR", GENERAL REVISIONS.	1/24/01	REG
D	P/N ITEM 29 WAS CN11-6	5/15/01	REG

42	18	10-32 X 1/2 LG	BUTTON HD SCREW	STAINLESS STEEL	
41	24	8-32 X 3/4 LG	SOC HD CAP SCREW	STAINLESS STEEL	
40	4	6-32 X 5/8 LG	SOC HD CAP SCREW	STAINLESS STEEL	
39	6	8-32 X 1/4 LG	BUTTON HD SCREW	STAINLESS STEEL	
38	16	4-40 X 3/8 LG	SOC HD CAP SCREW	STAINLESS STEEL	
37	8	2-56 X 5/8 LG	SOC HD CAP SCREW	STAINLESS STEEL	
36	4	8-32 X 1 1/4 LG	SOC HD CAP SCREW	STAINLESS STEEL	
35	1	B00MR-FX6A4S	EMERG STOP SWITCH	ALLEN-BRADLEY	
34	4	JE-5	SWITCH ACTUATOR	HONEYWELL/MICRO SWITCH	
33	4	1SE2	SE SWITCH	HONEYWELL/MICRO SWITCH	
32	2	84-01-10	PADDLE LATCH	SOUTHCO	
31	8	B540K51	BUMPER	McMASTER-CARR	
30	4	SSMD55N	BALL PLUNGER	VLIJER	
29	1	CN11-6A-3Z	SEISORIS	HANDWHEEL	BERG
28	1	TCN-01-F	LOCKNUT	RULAND	
27	1	DKN45/41-9-11	COUPLING	RIMTEC	
26	4	R-8 ZZ	BALL BEARING	MRC	
25	1	PMA22B-00100-00	SERVO MOTOR	PACIFIC SCIENTIFIC	
24	1	48-5068-1-A	BALL GUIDE SPECS	THOMSON	
23	1	30-5248-1-A	LEAD SCREW & NUT	REXROTH STAR	
22	1	02-5267-2-A	CABLE CLAMP	ALUMINUM	
21	4	04-5062-1-A	NUT PLATE-SWITCH	STAINLESS STEEL	
20	1	03-5058-1-A	COVER-SCANNER	STEEL	
19	1	02-5058-1&2-B	PLATE-SCANNER	ALUMINUM	
18	1	02-5057-1-C	MAST-DISPENSING	ALUMINUM	
17	1	02-5267-1-A	CABLE CLAMP	ALUMINUM	
16	1	02-5054-1-A	ANGLE-MAST	ALUMINUM	
15	1	02-5053-1-A	GUSSET-ANGLE	ALUMINUM	
14	1	02-5051-1-A	BRACKET-MOTOR	ALUMINUM	
13	1	02-5048-1-A	MOUNT-EMERG STOP	ALUMINUM	
12	1	02-5048-1-C	ARM-CARRIAGE	ALUMINUM	
11	1	02-5045-1-C	PLATE-CARRIAGE	ALUMINUM	
10	1	02-5197-1-A	BRACKET-BALL NUT	ALUMINUM	
9	1	02-5198-2-A	HOUSING-BEARING	ALUMINUM	
8	1	02-5198-1-A	HOUSING-BEARING	ALUMINUM	
7	2	02-5042-1-B	STOP-LIMIT	ALUMINUM	
6	2	02-5041-1-A	SWITCHMAN	ALUMINUM	
5	2	02-5040-1-A	ANCHOR-DETENT	ALUMINUM	
4	2	02-5039-1-A	BRACKET-SWITCH	ALUMINUM	
3	2	02-5038-1-A	SWITCHMAN	ALUMINUM	
2	2	02-5037-1-B	STOP-LIMIT	ALUMINUM	
1	4	02-5036-1-A	BRACKET-SWITCH	ALUMINUM	

ITEM	QTY	PART NUMBER	DESCRIPTION	MAT'L SPEC
50	6	10-32 X 1 LG	SOC HD CAP SCREW	STAINLESS STEEL
49	4	1/4-20 X 1 1/4 LG	SOC HD CAP SCREW	STAINLESS STEEL
48	20	1/4-20 X 1 LG	SOC HD CAP SCREW	STAINLESS STEEL
47	16	1/4-20 X 3/4 LG	SOC HD CAP SCREW	STAINLESS STEEL

ITEM	QTY	PART NUMBER	DESCRIPTION	MAT'L SPEC
46	2	10-32 X 2 1/2 LG	SOC HD CAP SCREW	STAINLESS STEEL
45	4	10-32 X 2 LG	SOC HD CAP SCREW	STAINLESS STEEL
44	4	10-32 X 1 1/4 LG	SOC HD CAP SCREW	STAINLESS STEEL
43	28	10-32 X 3/4 LG	SOC HD CAP SCREW	STAINLESS STEEL

ITEM	QTY	PART NUMBER	DESCRIPTION	MAT'L SPEC	
42	18	10-32 X 1/2 LG	BUTTON HD SCREW	STAINLESS STEEL	
41	24	8-32 X 3/4 LG	SOC HD CAP SCREW	STAINLESS STEEL	
40	4	6-32 X 5/8 LG	SOC HD CAP SCREW	STAINLESS STEEL	
39	6	8-32 X 1/4 LG	BUTTON HD SCREW	STAINLESS STEEL	
38	16	4-40 X 3/8 LG	SOC HD CAP SCREW	STAINLESS STEEL	
37	8	2-56 X 5/8 LG	SOC HD CAP SCREW	STAINLESS STEEL	
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31	8	B540K51	BUMPER	McMASTER-CARR	
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3	2	02-5038-1-A	SWITCHMAN	ALUMINUM	
2	2	02-5037-1-B	STOP-LIMIT	ALUMINUM	
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PARTS LIST					
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UNLESS SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ON: FRACTIONS: ±1/64 DECIMALS: ±.005 ±.015 ±.008 ±.005 ANGLES: ±3°		ASSEMBLY SCANNER Y AXIS DRIVE	
DRAWN	REG	DATE	8/00
ENGR		DATE	
SCALE	1/2	DWG	C SIZE
JOB		P170PD ISHT 1 OF 2	

# Schedule of Due Dates

<p><b>Recommended Presentation Content</b></p> <ol style="list-style-type: none"> <li>Qualitative Project Goals (brief)</li> <li>Quantitative Project Specifications</li> <li>Background Research: State of the Art</li> <li>Status</li> <li>Schedule (GANTT or similar chart)</li> <li>Budget</li> <li>Results</li> </ol>	<p><b>Proposal Report</b> September 15</p>	<p><b>Design Review Presentation</b> By 24 October</p>	<p><b>Final Presentations</b> Dead Week</p>
	X	X	X
	X	X	X
	X	audience relevant	X
	X	X	X
	X	X	X
	X	X	X
	X	X	X
Highlights:	Contrast candidate paths and commit	Status	Results with contrast to proposal
Duration		<10 minutes	< 15 minutes

Now let's look at some

# Before and After

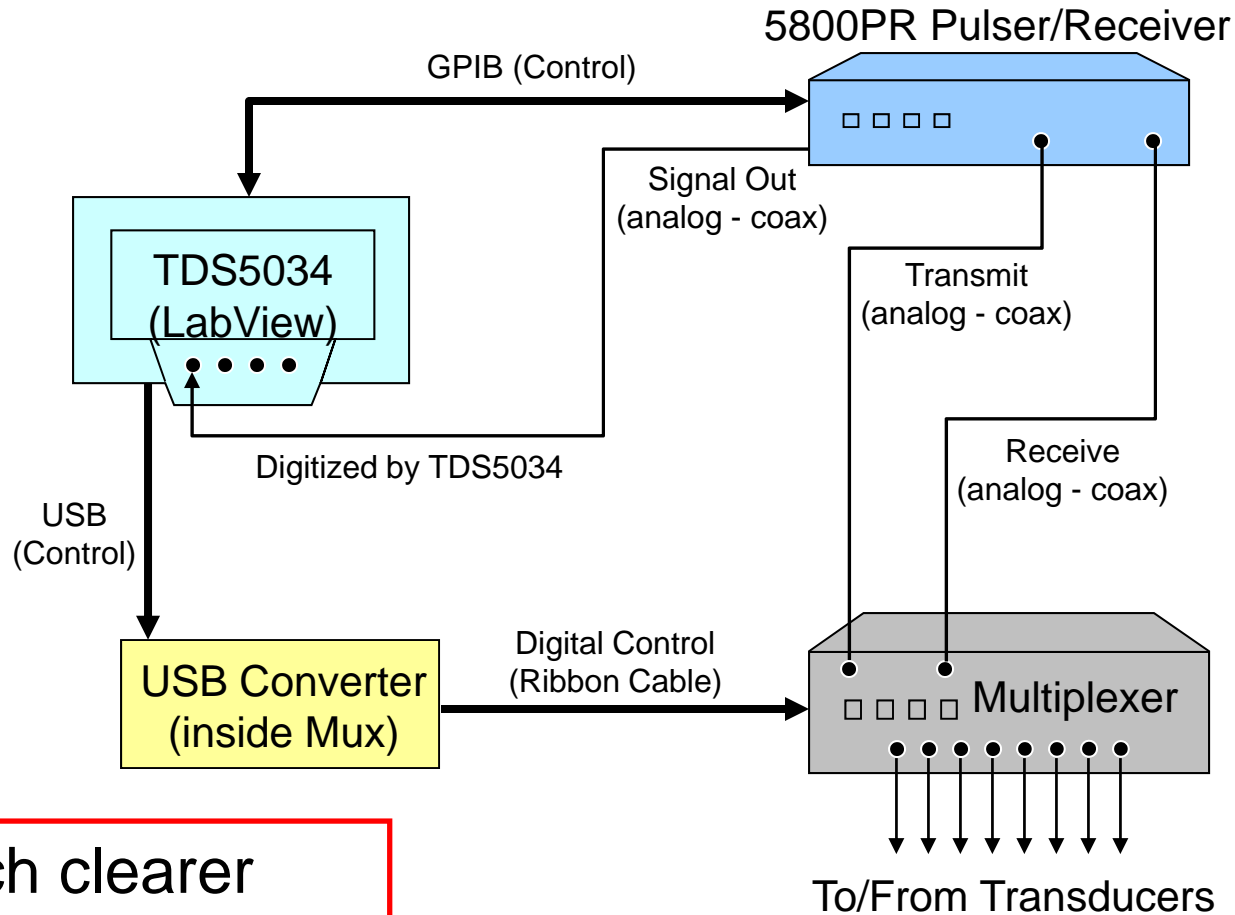
examples

# System Description

- PC-Based Oscilloscope (TDS5034)
  - Controls multiplexer via USB interface
  - Controls pulser-receiver via GPIB interface
  - Runs LabView
- Pulser Receiver
  - Signal output goes to scope input and is digitized
  - Transmit and Receiver are connected to the Mux
- Eight Channel Multiplexer
  - Supports up to 8 transducers
  - Routes Transmit and Receive to/from transducers
  - USB interface with scope PC



# System Block Diagram

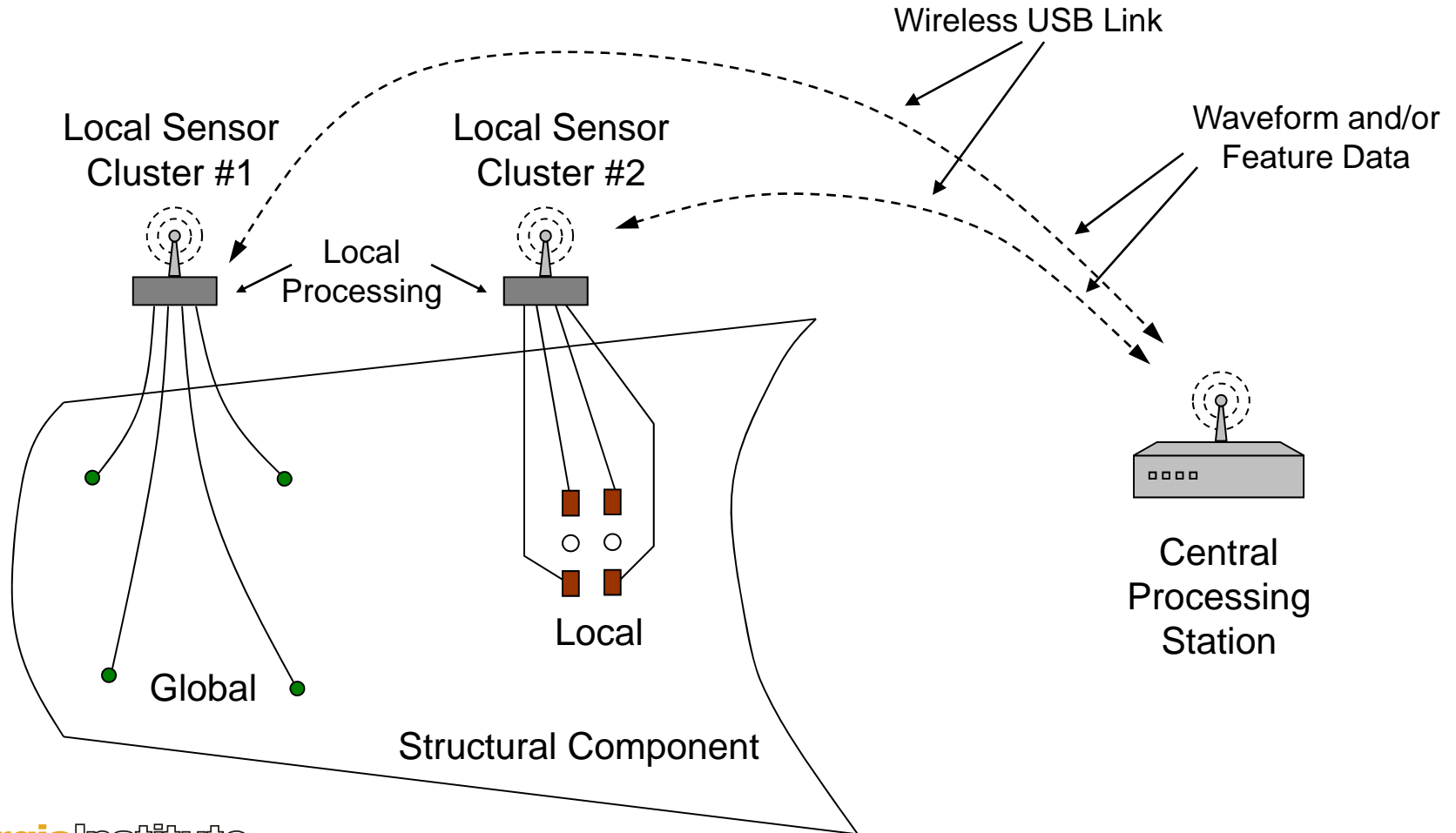


- Much clearer
- More information

# Ultrasonic Structural Health Monitoring System

- **Sensor Cluster**
  - Multiple ultrasonic sensors (up to 16 per cluster)
  - Each sensor can operate as a transmitter or a receiver
  - Synchronization between all sensors in a cluster
  - Processing capabilities for local data analysis
- **Structure with Multiple Sensor Clusters**
  - Local sensors for monitoring small areas
  - Global sensors for monitoring large areas
- **Wireless Link**
  - Sends raw waveforms or processed data to base station
  - COTS USB link (2.4 GHz)
- **Base Station**
  - Further processing of data
  - Can link/combine data from multiple sensor clusters

# Ultrasonic Structural Health Monitoring System



# Remember These?

- Title slide (Highly descriptive title)
- Acknowledgements
- Research Question or Objectives/Goals
- Background
- Methodology (or Technical Approach)
- Results
- Discussion of Results
- Conclusions
- Future Work
- Questions slide

Let's look at a few more examples of

**what works**

and

**what doesn't**

# Methods for Quantifying Changes in Diffuse Ultrasonic Signals with Applications to Structural Health Monitoring

**Jennifer E. Michaels, Yinghui Lu, and  
Thomas E. Michaels**

Georgia Institute of Technology  
School of Electrical and Computer Engineering

10<sup>th</sup> SPIE International Symposium  
Nondestructive Evaluation for Health Monitoring and Diagnostics

March 6-10, 2005

# Project Overview

- Monitor continuously integrity of critical structures, using permanently attached ultrasonic sensors.
- Apply technology for monitoring commercial airliners, bridges, and buildings. Primary client is Air Force.
- Estimate development costs at \$3 million; initial cost of a deployed system, including instrumentation and wiring, should be less than \$150,000.

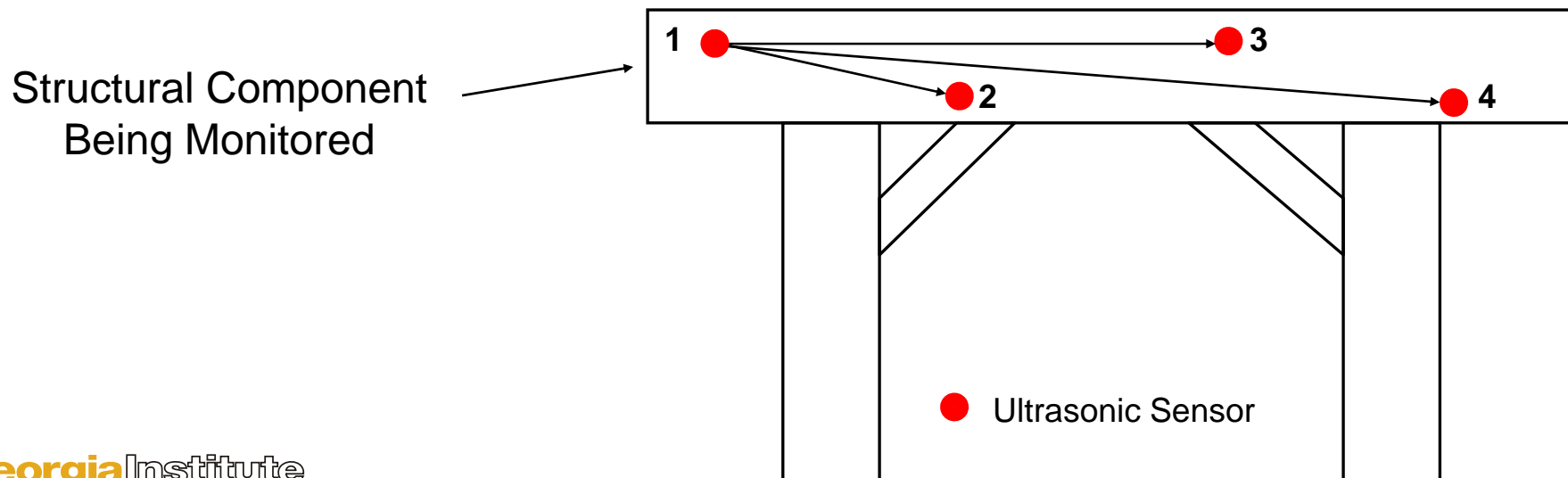
# Design Objectives: Weak

- Monitor structures
- Have attached ultrasonic sensors
- Read sensors
- Record waveforms
- Determine condition of structure



# Design Objectives: Better

- Monitor continuously health of critical structures (airplanes, buildings) in real-time
- Attach permanent ultrasonic sensors near, on, or in structure
- Interrogate sensors, record waveforms
- Analyze waveforms to determine if structure has developed internal flaws or pre-flaw conditions



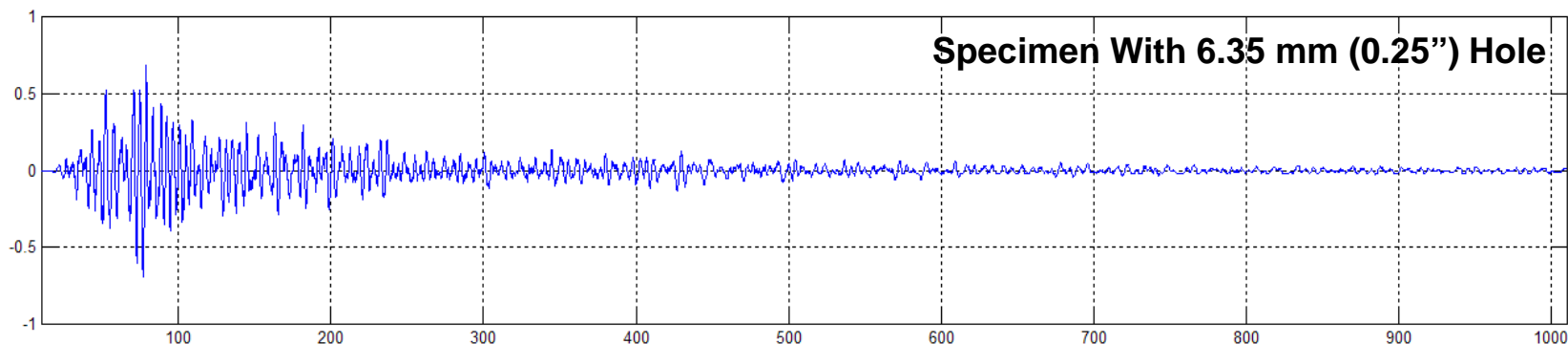
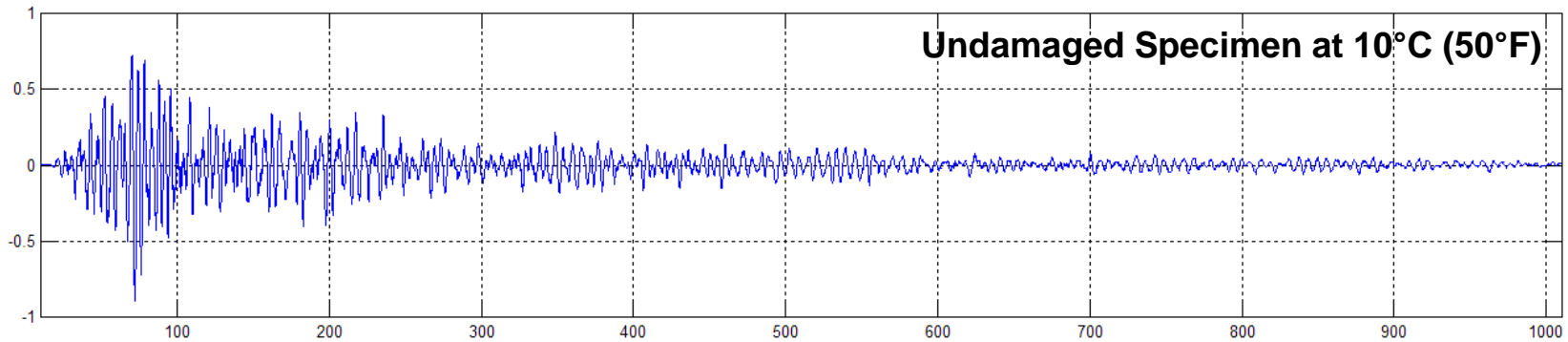
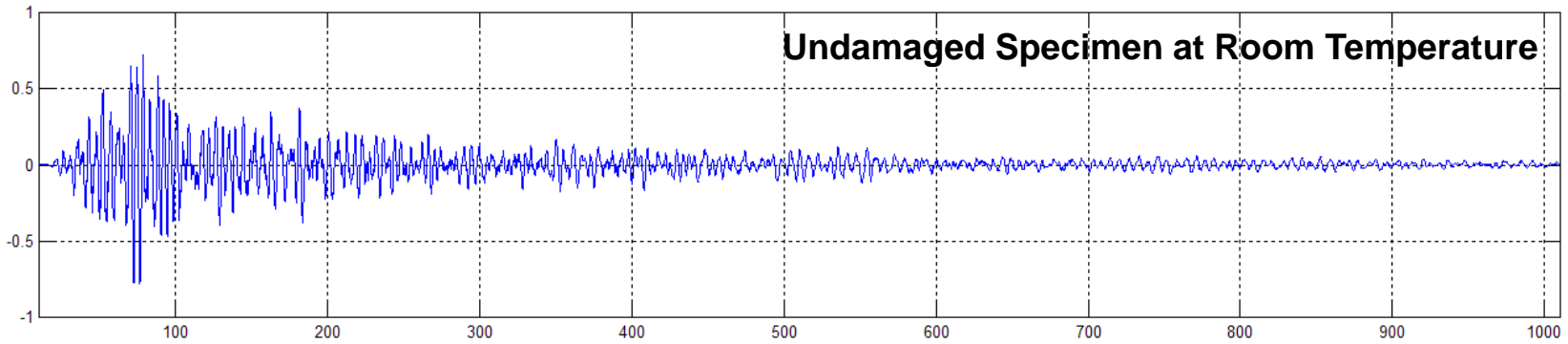
# Technical Approach: Weak

- Pulse with transducer
- Flood with energy and look for diffuse waves
- Introduce temp. changes and defects
- Goal is to detect minimum flaw in the presence of temp. changes.

# Technical Approach: Better

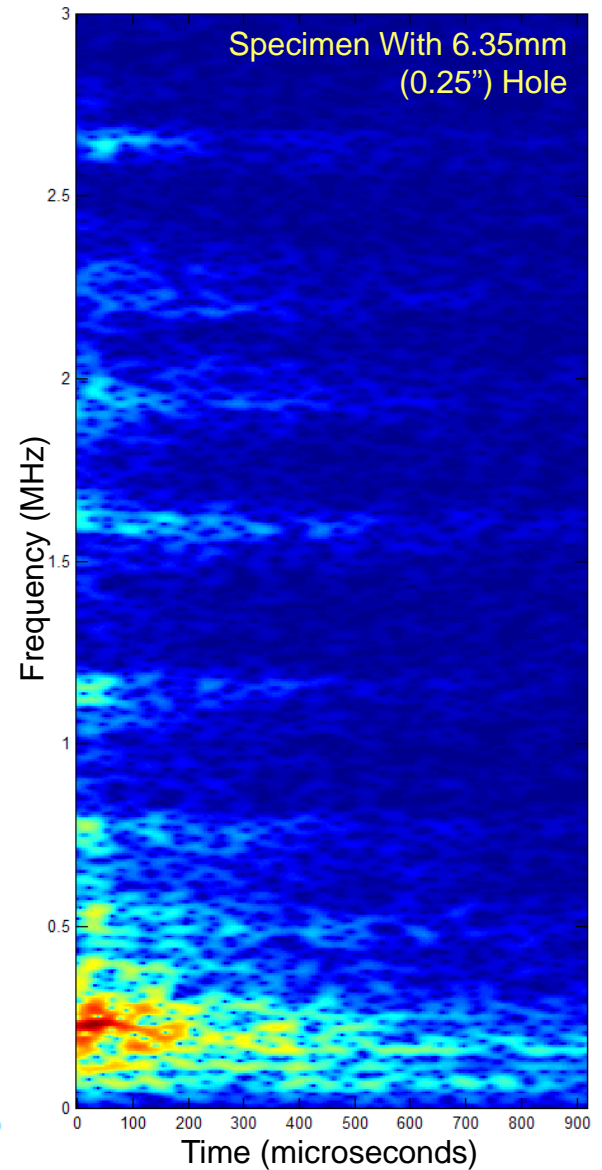
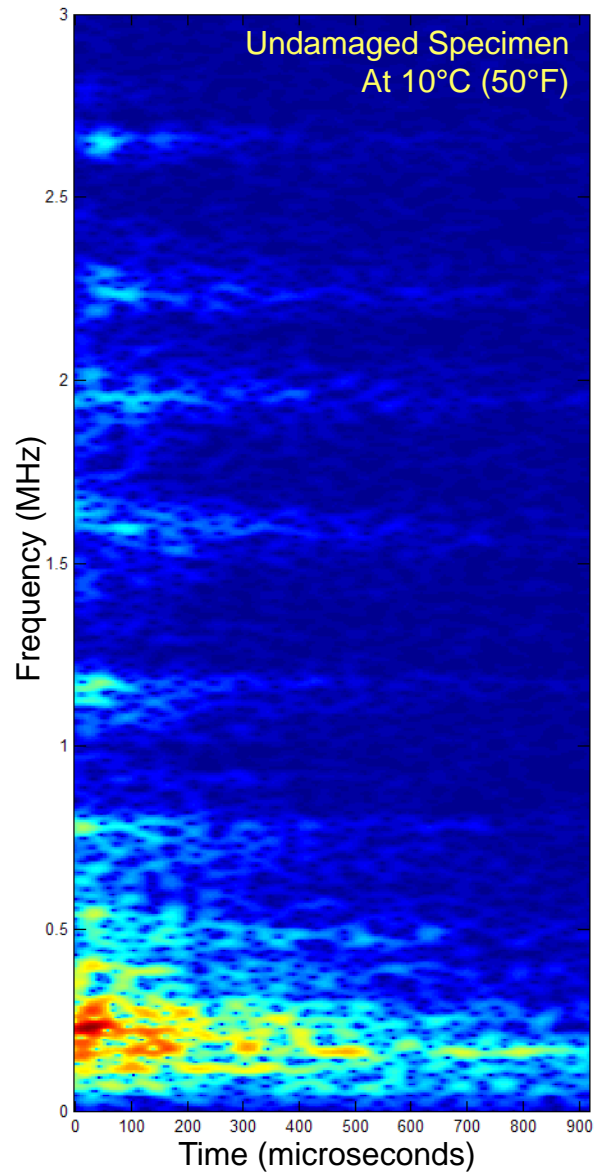
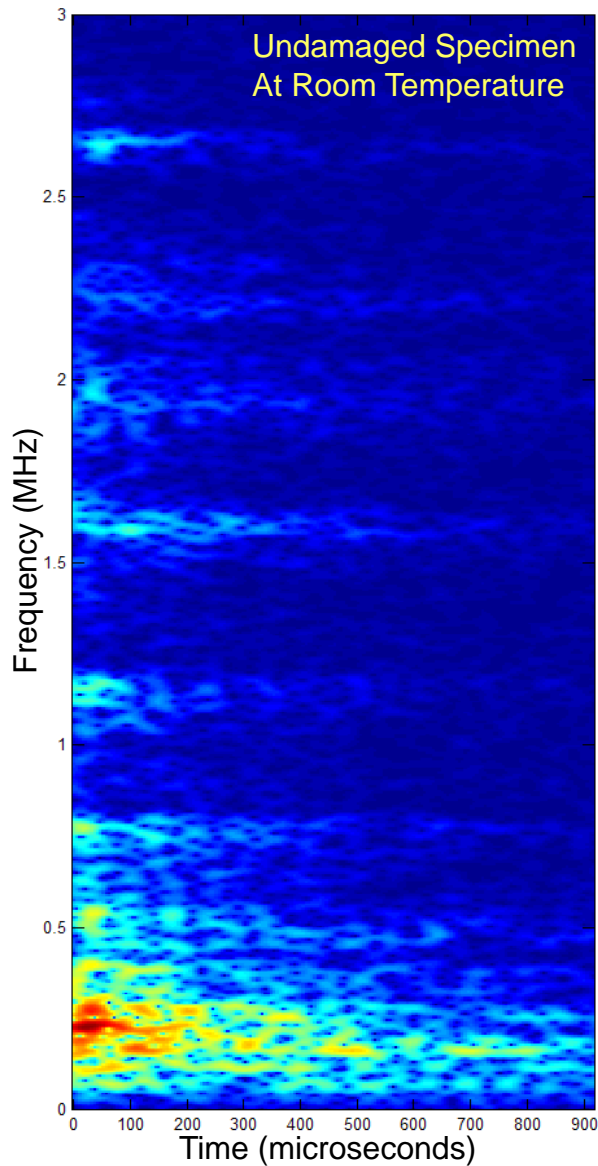
- Pulse with one transducer and receive with other
- Flood structure with energy, record response until energy has substantially died out (diffuse waves)
- Introduce temperature changes and artificial defects (separately and simultaneously)
- Goal is to discriminate between temperature changes and defects and to quantify minimum detectable flaw size in the presence of temperature changes

# Measured Ultrasonic Signals



Time (microseconds)

# Short-Time Fourier Transform



# Data: Weak

- Waveforms were recorded at various temperatures.
- Waveforms were recorded at various temperatures as notch was enlarged.

# Experimental Data: Better

- Specimen #1
  - 65 waveforms recorded from undamaged specimen at various temperatures
  - 397 waveforms were recorded from damaged specimen at various temperatures as notch was enlarged from 0.025" to 0.25" in length
- Specimen #2
  - 98 waveforms recorded from undamaged specimen at various temperatures
  - 64 waveforms recorded from damaged specimen at various temperatures as t hole was enlarged from 5/64" to 0.25" in diameter
- Goal: detect damage while minimizing false alarms

# Future Work

- Implement data fusion at feature level to improve detection performance
- Develop, implement methods for estimating flaw sizes
- Investigate effect of flaw type and location on detection sensitivity
- Consider more complicated specimens with real defects



# Project Summary

- Four candidate methods for comparing diffuse ultrasonic signal to baseline have been identified and evaluated for detecting damage in presence of temperature changes
- All four methods perform reasonably well if large number of baseline waveforms span expected temperature range

# Presenting With Style: Looking as Good as Your Slides

- Think conservative.
- Clean, pressed shirts and slacks/skirt.
- Men—white t-shirt under button down or polo shirts.
- Shoes and belt should be same color.
- Women—knee length skirts, moderate heel, minimize accessories.
- Nothing tight or trendy.





# Performance Techniques: Bringing Your “A” Game

- Take several deep breaths.
- Stand up straight—pay attention to your posture.
- Make eye contact with your audience.
- Project your voice.
- Pace the rate of your speech so that it is natural and moderate.
- Monitor your gestures and avoid habitual behaviors (hands in pocket, playing with your hair, pacing).



# Presentation Never's

- **Never** run over your time limit. Ever!
- **Never** apologize for any aspect of your presentation. If you have to apologize, you aren't prepared.
- **Never** respond aggressively to a question or comment. Even if you are right, the whole audience will resent you for picking on that poor questioner.

# Top 5 Secrets of the Pros

5. Tour the space you'll be presenting in prior to your talk.
4. Make sure the room's technology is compatible with yours.
3. Stand to one side of the projection screen instead of behind the podium.
2. Use the "meteorologist chop" instead of a laser pointer or a cursor.

And the #1 Secret...

**Practice!**

**A lot!**



# Questions?

Use the story board method  
to draft your presentation

Here are some sample slides  
to help you organize your work

# Title Slide

# Acknowledgements

- Sponsors
- Advisors
- Funding source

# Description of Research

- What
- Why
- How
- Results

# Show Your Work or Things Like Your Work

- Illustrations
- Diagrams
- Photos

Show the audience what you've been doing

- Show the actual thing
- Show a diagram/figure/illustration of the thing
- Show something that is like your thing

# Background

- Prior art
- Summarize work being done in the field
- Explain concepts/terms
- Provide context

# Your Research Methods



# Problems/Issues Encountered

- Sometimes the best “story” about your research is what didn’t work
- What problems/issues arose? How did you overcome them or solve them?

# Results

- Quantify your results
- Show your results—tables, data, schematics, figures, photos,

# Significance of Results

- What is important about the results?
- How can the results be applied to the real world or to your field?
- What do these results mean?
- What are the wider implications of the results?



# Future Work

- What areas of your research need to be continued?
- What additional work needs to be done to complete this research?
- Be specific

# Last Slide

- The last slide could be your Future Work slide.
- You could also have a “Discussion” slide where you pose some questions or bullet points that guide the Q&A that will follow your presentation

# Extra Slides

- If you anticipate that your audience might have questions about a particular aspect of your work, you could prepare extra slides that can easily be pulled up during the Q&A.
- You could also create a handout for your audience.