

EE/CpE 423

Senior Design

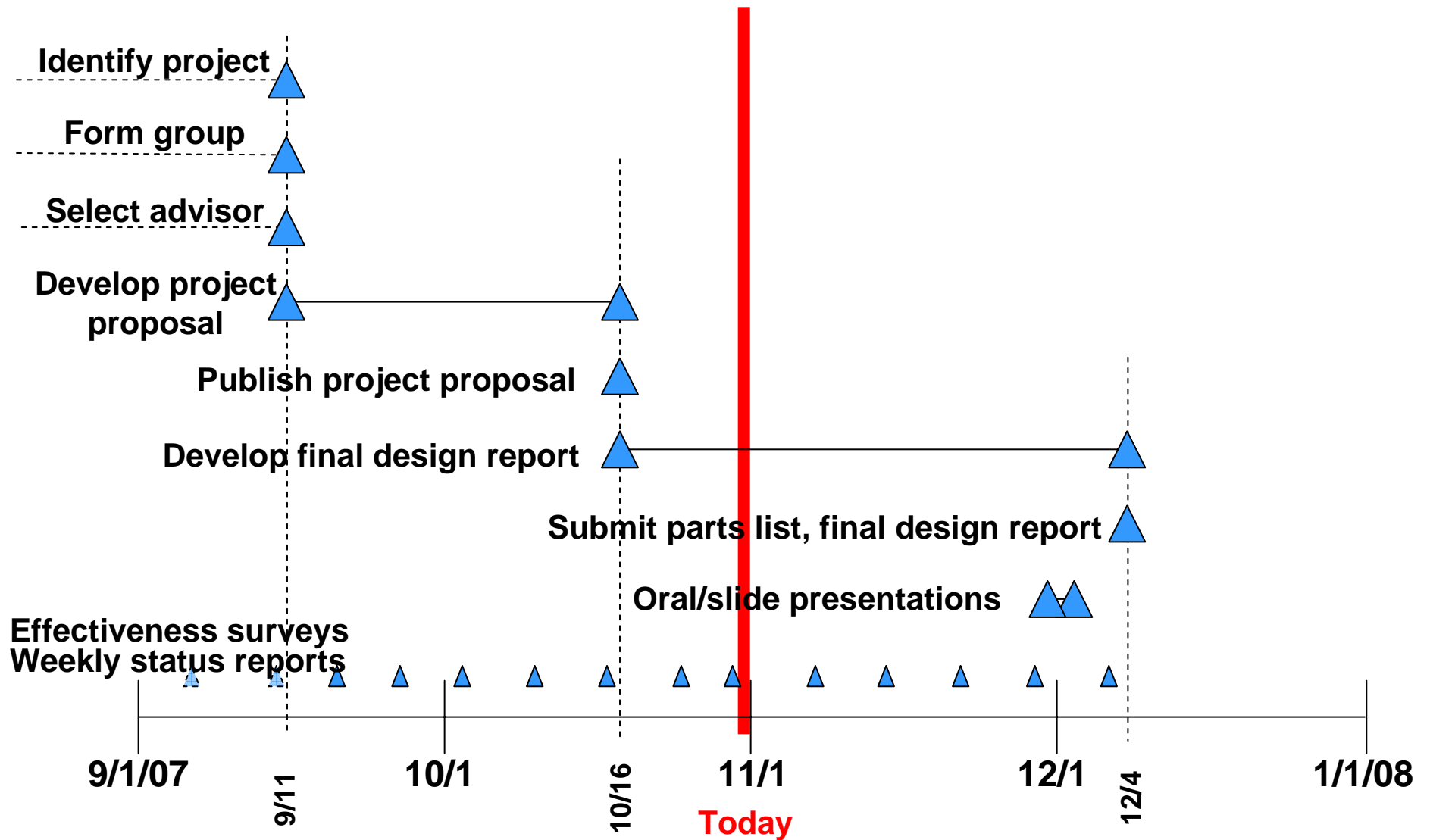
Fall 2007

Class 9 – 10/30/07

Agenda

- Time line and deliverables
- Web sites
- Fall presentations
 - Schedule
 - Guidelines

Senior Design Tasks – Fall '07



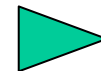
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Senior Design Web Sites

- Every group must develop a web site. You can use Word, FrontPage, Dreamweaver, GoLive, or any other tool you prefer to develop the site. You can edit HTML directly if you feel daring.
- The web site **MUST** be hosted on panda.ece.stevens-tech.edu.
 - You may put optional content on an external site, or mirror content on the external site, but only what is on panda and can be archived for future years will be graded.
- Logins/passwords will be sent to all Senior Design group leaders shortly. Please change password to something better than a trivial modification of the login name...
- Web sites will be graded monthly on the 15th of the month, starting 11/15/07
 - Content must include:
 - All weekly reports (**NOT Effectiveness Surveys**)
 - Proposals, project reports, presentations, Design Day posters
 - Links to relevant external sites that you have researched are encouraged (**hint**)
 - Everything on your web site must be in one of two formats: .pdf or .html
 - No Word, PowerPoint, MSProject, etc. files
- Web site design must be your group's original work. You can mimic format if you see something you like, but generate your own html.
- Consider readability of your site:

Fall Presentations

- The following groups have members who are registered for EE or CpE-423 B:
 - 2, 3, 4, 19
 - These groups will be given preference for picking Tuesday time slots until Thursday, November 1, then will be assigned an open Tuesday slot
- The rest of the groups can pick any remaining open time slot, first come, first served
- Any group that has not selected a time slot by Tuesday, November 6 will be randomly assigned a time slot
- **WHEN YOU REQUEST A TIME SLOT, INDICATE AT LEAST TWO (PREFERABLY THREE) PREFERENCES, IN CASE YOUR FIRST CHOICE IS ALREADY TAKEN. IF YOU DO NOT INDICATE ALTERNATE CHOICES, AND YOUR FIRST CHOICE IS TAKEN, YOU GO TO THE BACK OF THE LINE**
- You should coordinate your choice of a time slot with your advisor so they can be present during your presentation (if I am your advisor, there is no need to coordinate – I'll be here)



Presentation Logistics

- There are 19 groups presenting - time is not as tight as it has been for other classes, but Murphy's Law guarantees problems.
 - 20 minute time slot
 - Includes ~5 minutes for questions, discussion, change over
- You should create your presentation with PowerPoint.
- **Save it in PowerPoint2003 format (or earlier).**
- **DO NOT SAVE IN PowerPoint2007 VERSION – I CAN'T OPEN IT. DON'T SAVE AS PDF – I can't link to it properly from Powerpoint**
- To simplify logistics, you must **email me your presentation before noon** the day of your presentation
 - there will be no time for setting up/switching multiple PCs, switching between PCs, slide projector
 - I'll put the presentation on my laptop
 - **I WILL NOT HAVE CD-ROM or FLOPPY AVAILABLE**
 - **DON'T MISS YOUR TIME SLOT – While I would like everyone to see every presentation, as a minimum, arrive at least 20 minutes early. If you miss your assigned time slot, there may not be time for a makeup of this required presentation**
- Your presentation should fit on ~5-8 slides
- Diagrams, tables, charts are preferred. Word only slides (like this one) are not!

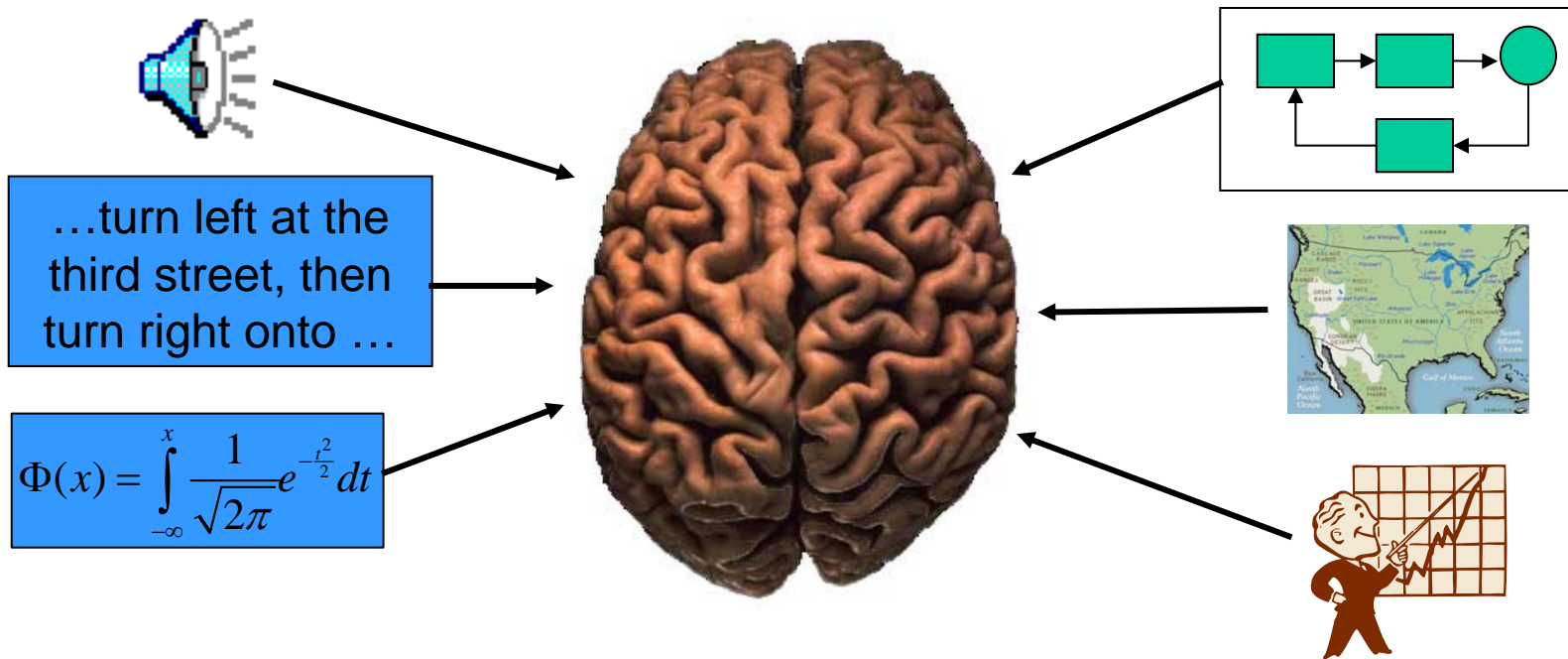
Generic Guidelines For A Good Proposal or Presentation

- Consider addressing the following questions:
 - What are you trying to do?
 - How is it done now?
 - What are the limits of current approaches?
 - How will your efforts influence the current limits?
 - If you succeeded beyond your wildest dreams, what would the impact be?
 - How will you be measuring progress to your end goals? How will you know if you are moving ahead or are stuck?
 - What is this effort likely to cost? What is the schedule?

Presentation Suggestions - 1A

- Many psychological studies have shown that the right and left halves of the human brain process information differently
 - The Left Brain processes text, speech and symbolic communications
 - The Right Brain processes images, diagrams
- If your slide consists only of text, like this one, your slide and oral presentation are only engaging half of the audience member's attention. Some people do not process written or spoken information well - you are missing them altogether
- Text-only slides are:
 - boring – especially if you read the entire slide
 - easy to forget
 - hard to skim through if you are pressed for time
- If you write everything, why are you needed for the presentation in the first place?
Just send a memo

Presentation Suggestions - 1B



- Graphics slides are more:
 - engaging
 - memorable
 - flexible

Presentation Suggestions - 2

- The standard instructions to a journalist:

Who	
What	
Where	
When	
Why	
How	

Presentation Suggestions - 2

- The standard instructions to a journalist:

Who	List group members and advisor on Title Slide
What	Describe the problem you are trying to solve
Where	Indicate the course number on Title Slide
When	Indicate the date, semester on Title Slide
Why	Describe the background of the problem - why is it interesting?
How	Describe your approach

Presentation Suggestions - 3

- Structure of any good presentation:

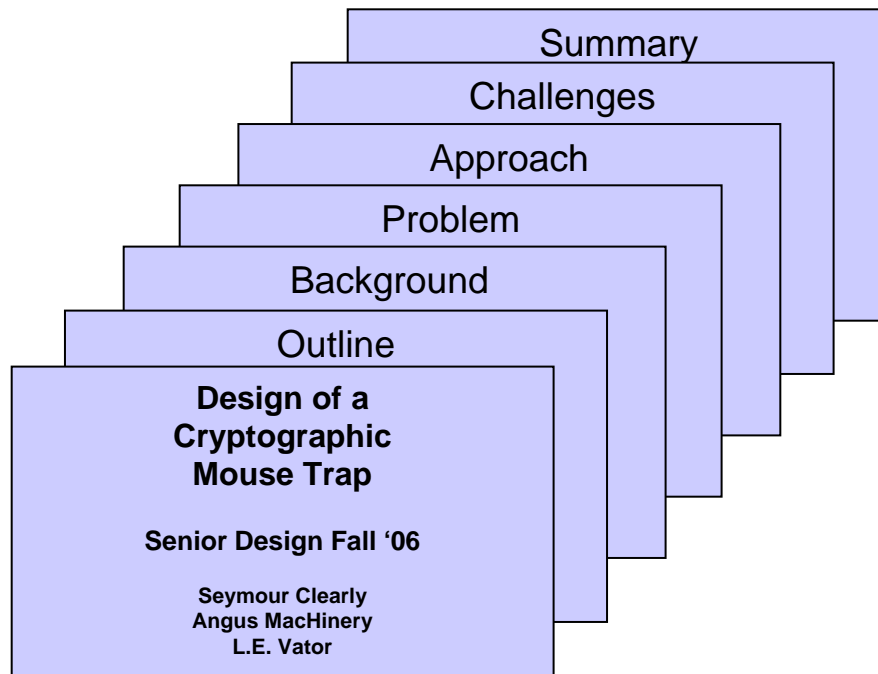
Tell them what you're going to tell them	
Tell them	
Tell them what you told them	

Presentation Suggestions - 3

- Structure of any good presentation:

Tell them what you're going to tell them	The outline
Tell them	The body
Tell them what you told them	The summary

Your Presentation



- Some items to consider in your presentation:
- A top-down presentation is usually the easiest to follow
 - It is also the easiest to adapt to the time available and the level of understanding of the audience
 - Back-up material is good, but you don't have to use it all.
- Besides the Who, What, Where, When, Why, How, some specific questions to consider:
 - What is the problem you are trying solve?
 - Who is the customer?
 - How has the problem been approached in the past?
 - What are the current limits?
 - What are you proposing to do to remove the limits?
 - What impact will your solution have?
 - What challenges do you envision and how will you get around them?

Summary

- Schedule your presentation with the advisor's calendar in mind. They need to grade your work, to avoid duplicating your presentation, find when they may be available and invite them.
- Structure the presentation to be effective
- Emphasize graphics to maximize impact
- Anticipate questions/issues and plan to address them
- Rehearse!

Summary

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- Anticipate questions/issues and plan to address them
- Rehearse!



This is 16 point Arial (~ Tahoma, Helvetica, Lucida Sans)

Avoid anything smaller (this is 14 point)

Serif fonts (this is 16 point Times Roman)
are harder to read than sans-serif fonts