

EE/CpE 423

Senior Design

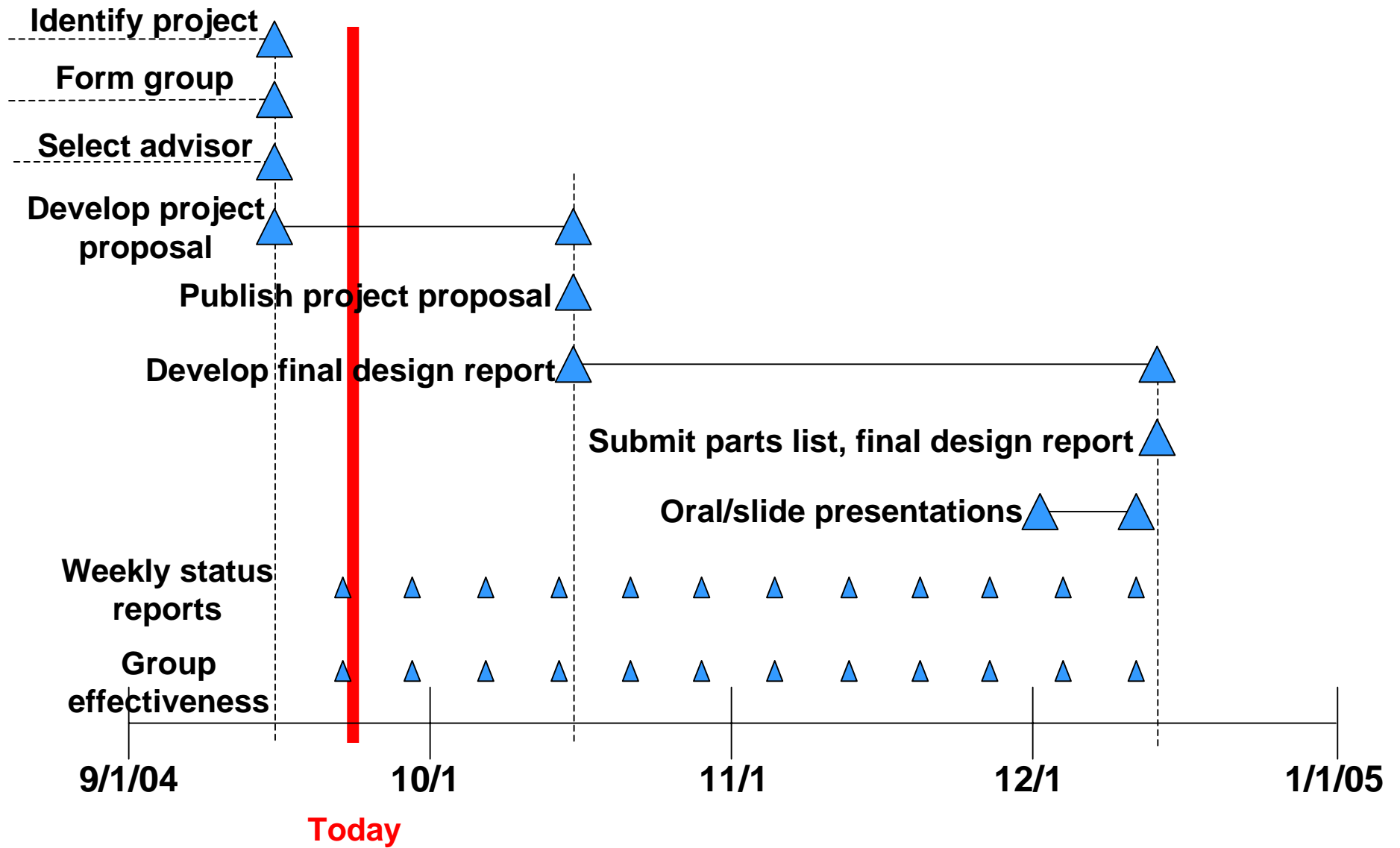
Fall 2004

Class 4 – 9/21/04

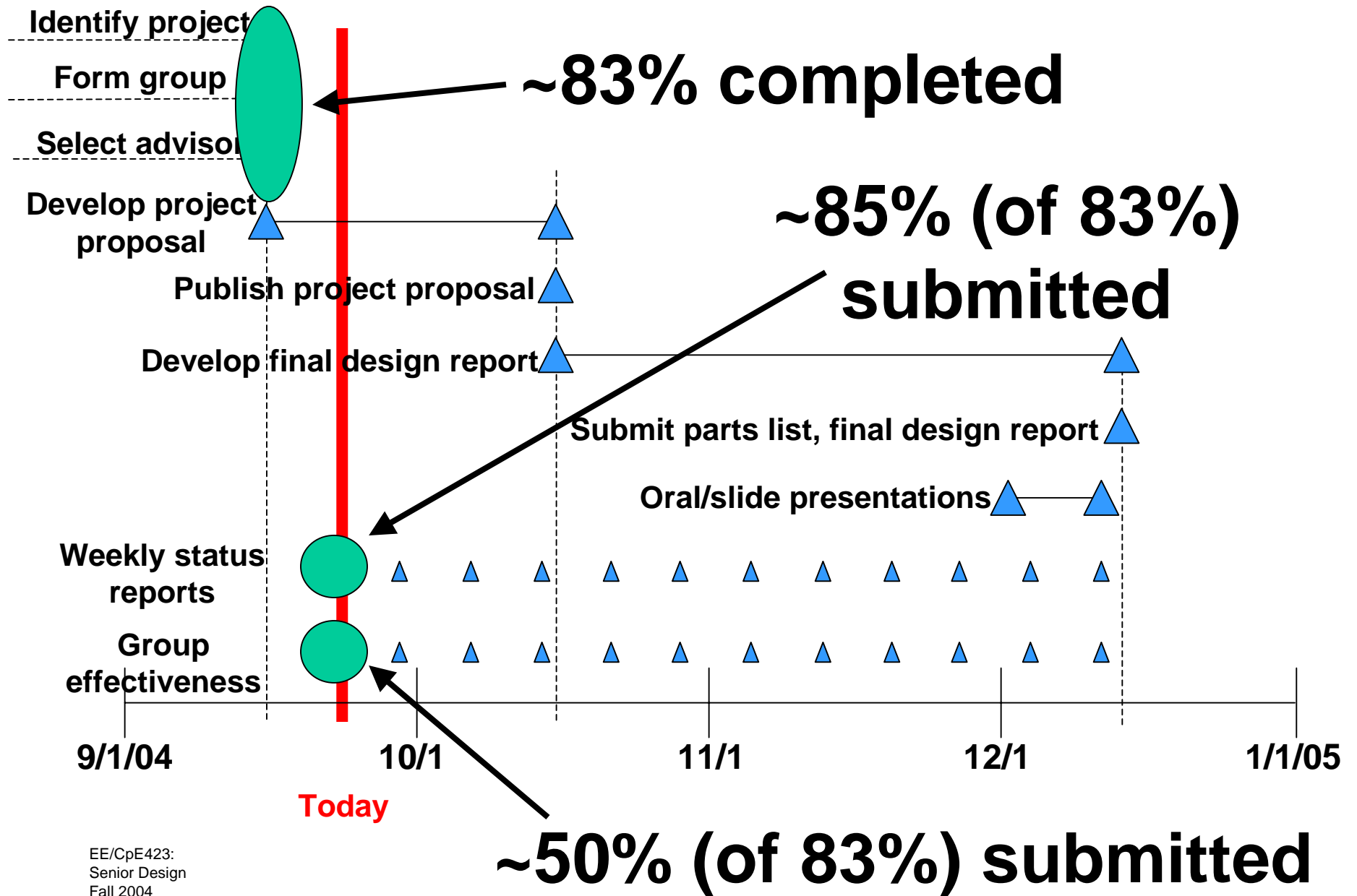
Agenda

- Task schedule
- Group status
- Upcoming items

Senior Design Tasks – Fall '04



Senior Design Tasks – Fall '04



Ongoing Deliverables:

http://www.ece.stevens-tech.edu/sd/material/weekly_report_template.doc

These are place-holders
they should be filled in
with correct information

EE/CpE 423-424 WEEKLY STATUS REPORT					
Group #	XX	Week ending	XX/XX/XX	Report #	XX
Project Title:					
Group Leader:			Advisor:		
Sponsor/Client:					
Total number of person-hours spent on project by group during past week:					
Is project on schedule?		Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
Weekly status:					
<h1>SEND A COPY TO YOUR ADVISOR</h1>					
Weekly report is due to Senior Design Coordinator by Noon Monday					
Template version: 9/1/03					

Ongoing Deliverables:

http://www.ece.stevens-tech.edu/sd/material/Group_effectiveness_survey.doc

These are place-holders they should be filled in with correct information

Do not include BizTech or other Non-ECE students

EE/CpE 423-424
GROUP EFFECTIVENESS SURVEY

Group #	XX	Week ending	XX/XX/XX	Report #	XX
Project Title:					
Report Submitted By:					

Assign a score between 0 and 100 to each team member (*including yourself and the team leader*) to indicate how much YOU believe *that* team member contributed to the overall accomplishments of the group for the week. The total number of points assigned must total 100.

Team member's name	Score (0-100)
Sum of scores	100

Comments on team effectiveness:

**DO NOT
SEND TO
ADVISOR**

Does the team regularly assess its effectiveness?	Yes	[]	No	[]
Have you shared your thoughts on the team's effectiveness with the rest of the team?	Yes	[]	No	[]

Report is due to Senior Design Coordinator by Noon Monday

Template version: 9/1/03

About Deliverables:

- Dominik Hepp is NOT the Senior Design TA – Jason Berenbach is.
- Email to us through WebCT or email sent to `sd@koala.ece.stevens-tech.edu` will work. Unfortunately, after the email is forwarded to our nexus accounts, the ability to reply-to is lost. If you want a reply, you can send email directly to `bmcnair@stevens.edu` and `jberenba@stevens.edu`, or include your reply-to address in the email.
- Submissions must have group number on them (reduces the N=120 problem to an N=~30 problem)
- Groups that have descriptive names for attachments are most likely to get (extra) credit for their work. E.g.,
 - `Group37_Week4_WeeklyReport.doc` is much more useful than
 - `Form.doc`

 - `Group37_Week7_Effectiveness.doc` is much more useful than
 - `Form.doc`
- Sending two attachments in the same email (effectiveness report and weekly report) increases the chances that credit for one will be missed. Besides, the distribution list for the two is different.

Senior Design Groups/Projects

Group	Title	Members	Advisor	Sponsor
1	Land Mine Detection	Mumma, Castro, Peart, Girard, Wang	Tureli	
2	The HeliOS Project: Sensor System	Hakusa, Lem, Pulla, Schmidt	McNair	
3	The HeliOS Project: Guidance and Logic	Kennedy, Khan, Kwok, Poulos, Wahba	McNair	
4	Stevens Web Wash	O'Neill, DeLuca, Damato, Hetherington	Man	
5	Spectrum Sharing Through Multidimensional Reuse	Patel, Parekh, Parikh, Shah, Srinivasan	Tureli	
6	Continuous roll film scanner for 35mm and medium format film	Chowdhury, Camino, Outram, Marmolejos	Man	Lektra Labs
7	Real-time Adaptive Traffic Control Systems and Analysis of Traffic Patterns	Teotia, Gonzalez, Guda, Sesti, Singh	Ghosh	
8	Wireless Drifter	Koshy, Iwai, Rozanski, Taormina, Yun	Yao	
9	Virtual Enterprise Network	Philipose, Gonzalez, Hernandez, Jaime, Saul	Man	
10	RFID Checkout	Schatz, Clarke, Kukis, Svihra, Szlezak	Man	

Senior Design Groups/Projects

Group	Title	Members	Advisor	Sponsor
11	Failure Detection System for Moving Bridge	Ho, Drobik, Martin, Uku	Meng	
12	Remote Surveillance Vehicle	Garrison, Cho, Civick, Ganz, Strein	Man	
13	Linux video conferencing	Firner, Siegwarth	Man	
14	Iris Recognition System	Mich, Schweizer, Wan	Man	
15	DMX-to-Ethernet	Bennett, Evans, Santoro	Meng???	
16	Multinetwork Roaming using VoIP	Halli, Havens, Herrera, Toledo	Man	WiNSeC
17	Voice Activated Keyless Entry Watch	Bianchi, Cai, (Jenson) George, Sukharan	Chandramouli	
18	Mortar Sensor System	McCaughey, Acosta, Guanlao, Henry, Vo	Meng	
19	R.I.N.G – Ring Identifier Network Grounds	Battersby, (Milia) George, Rajan	Man	
20	RF Transceiver Testbed for ISM Bands	Campos-Giraldo, Criss, Garces, Kerr, Singh	Yao	

Senior Design Groups/Projects

Group	Title	Members	Advisor	Sponsor
21	Remote Diver	Sosinsky, McAvoy, McKnight, Price, Rogers	Tureli	
22	Lifesaver	Clark, Cummings, Podgorsek, Stark	Li	
23	Spectrum Analyzer for Dynamic Access (SADA)	Bossola, Thakker, Huang, Bautista, Tiu	Yao	
24	GameBoy Advance GPS Cartridge	Lutz, Creswick, Mikola(CS), Ramudit(CS), Pham(CS), Gengler(CS), Kim(CS)	Meng	
25	(VACS) Voice Activated Control System	Baptiste, Best, Mendieta, Oppong, Patel, Telford	Chandramouli	
26	Secure Entry System	Klucsarits, Abraham, Drozd, (Jason) George	Chandramouli	
27				
28				
29				
30				

Senior Design Groups/Projects With No Advisor

Group	Title	Members	Advisor	Sponsor
	Perfectly Popped Popcorn	Juell, Marincas, Rower		
	Innertchill System Cooler	Swartout, Micchelli, + 2ME + 1 BizTech		

We track and record all submissions by group number.



Senior Design Students Not Yet Known To Be In A Project Team

9 students not yet in groups

Ceanfaglione	Cheung	Hashmi	Haydu
Hayman	Karshner	Koscinski	Kramnick
Lontoc			

Who is likely to advise another group?

Faculty Member	Number of groups		
	2004-5	2003-4	2002-3
Al-Jaroodi	0	-	-
Boesch	0	0	1
Chandramouli	3	1	3
Comaniciu	0	-	-
Ghosh	1	3	6
Heffes	0	0	1
Kintala	0	-	-
Li	1	1	0
Man	9	7	8
McNair	1-2	7	10
Meng	4 (3?)	-	-
Mohamed	0	-	-
Subbalakshmi	0	0	1
Tewksbury	0	1	3
Tureli	3	1	1
Yao	3	2	4

Tracking a faculty member:
 1- find their courses on registrar's web site
 2- find when (and where?) class meets
 3- camp outside their office (class?) before/after class

Group Churn

- Random movement of students between Senior Design groups reduces the chances for success as groups need to reassign tasks to entering and leaving members. In the limit, the group spends all of its efforts on this fruitless activity.
- In case you and your group have mutually decided that the association is absolutely not workable:
 - I need
 - Email from you requesting a change in groups
 - Email from the soon-to-be-former group leader and faculty advisor(s) agreeing to the change
 - Email from the soon-to-be-new group leader and faculty advisor(s) agreeing to the change
- Your final Senior Design grade will be based on a time-weighted average of the grades for the groups you were in
- It is easier to do this sooner, rather than later.

Other things you should start thinking about

- Project web site
 - Get it up and working now so you can refine it later when it will be graded.
 - Must include all group deliverables (but NOT group effectiveness reports)
 - Research and other information links
 - All content must be on panda.ece.stevens-tech.edu
 - Each group will have a login on panda in the form “grp39”
 - If you are developing or hosting at another site, the other site must mirror panda content (i.e., do not link panda site to off-site content - we can't archive off-site content)
- Final presentation
 - As you develop your project concept, think how you will present the idea
 - Presentations will be scheduled during the last two weeks of class (3-5:50 on Tuesday will be used both weeks, 3-5:50 will be used on one or both Thursdays)
 - More details on presentation will be provided later – assume 15-20 minutes; all group members must be present.

Other information

- Upcoming class meeting topics – outside speakers:
 - Linda Scanlon, Stevens Library: Conducting on-line research
 - Dominik Hepp, ECE Department: ECE PC board fabrication facilities
 - Don Ciolini, Bell Labs (retired): A view from the trenches
- Other resources:
 - Circuit Cellar magazine
 - Hardware/software information on my web site