

EE/CpE 423

Senior Design

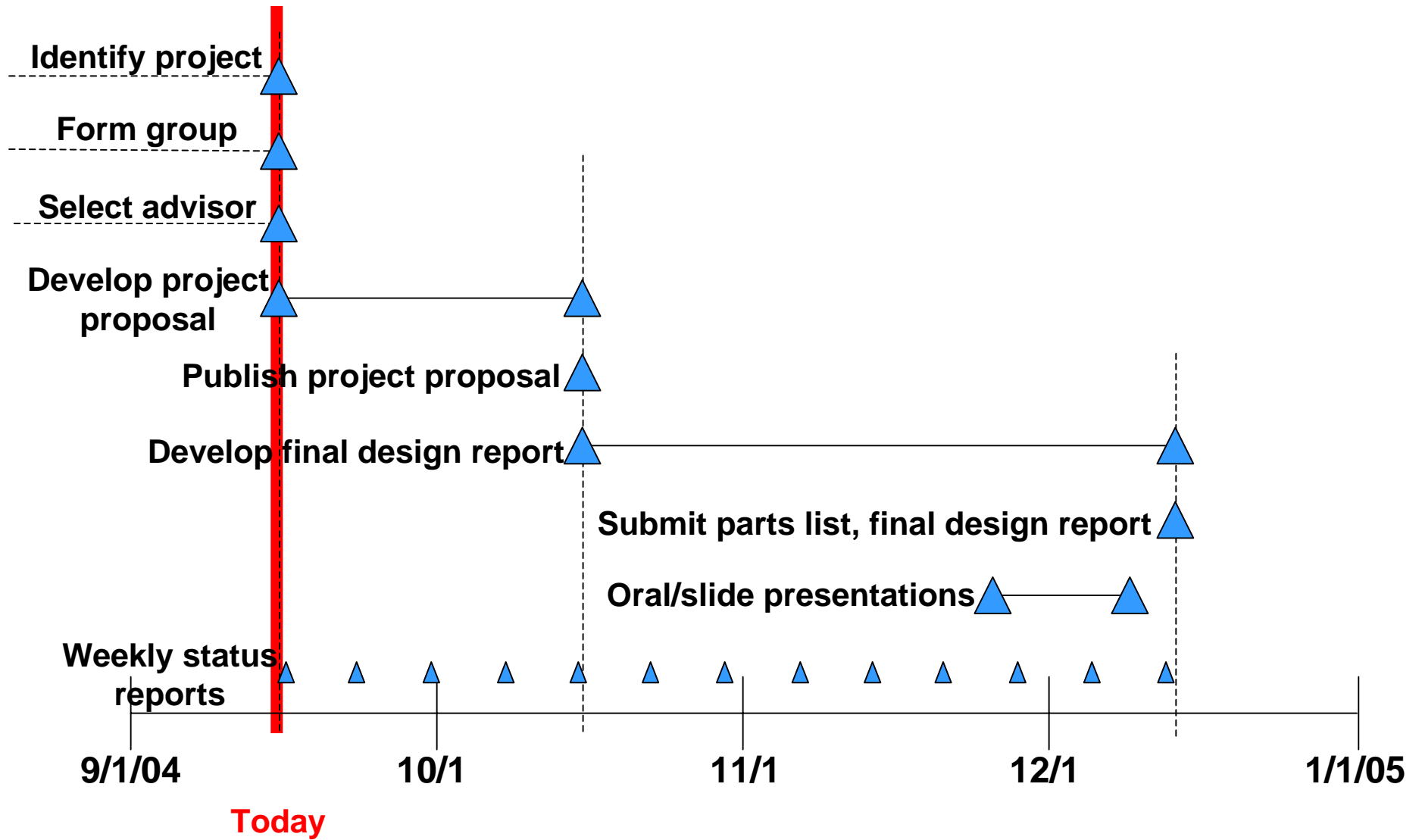
Fall 2004

Class 3 – 9/14/04

Agenda

- Status and deliverables
- Patents, copyright, trade secrets, IP and technical business ethics

Senior Design Tasks – Fall '04



Senior Design Groups/Projects

Group	Title	Members	Advisor	Sponsor
1	Robotic Landmine Detection	Mumma , Peart, Castro, Wang	Tureli	
2	The HeliOS Project: Sensor System	Hakusa , Lem, Pulla, Schmidt	McNair	
3	The HeliOS Project: Guidance and Control	Kennedy , Wahba, Kwok, Poulos, Khan	McNair	
4	Stevens' Web Wash	O'Neill , Hetherington, Damato, DeLuca	Man	

Now that you've formed a group...

- Weekly reports due Monday by Noon
 - Use template provided to ensure consistent format:
 - Template is on Senior Design web site
 - Team leader is responsible for submission of weekly report

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	[]	No []
Weekly status:					
Weekly report is due to Senior Design Coordinator by Noon Monday					
<small>Template version: 9/1/03</small>					

Now that you've formed a group...

- Group Effectiveness Survey
 - Use template provided to ensure consistent format:
 - Template is on Senior Design web site
 - EACH group member must submit survey each week

EE/CpE 423-424 GROUP EFFECTIVENESS SURVEY			
Group #	XX	Week ending:	XX/XX/XX
Project Title:			
Report Submitted By:			
<p>Assign a score between 0 and 100 to each team member (<i>including yourself and the team leader</i>) to indicate how much YOU believe <i>that</i> team member contributed to the overall accomplishments of the group for the week. The total number of points assigned must total 100.</p>			
Team member's name	Score (0-100)		
Sum of scores	100		
<p>Comments on team effectiveness:</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>			
Does the team regularly assess its effectiveness?	Yes	<input type="checkbox"/>	No <input type="checkbox"/>
Have you shared your thoughts on the team's effectiveness with the rest of the team?	Yes	<input type="checkbox"/>	No <input type="checkbox"/>
<p>Report is due to Senior Design Coordinator by Noon Monday</p> <p style="font-size: small;">Template version: 9/1/03</p>			

Now that you've formed a group...

- Each group will have a WebCT private discussion group, if you want to use it to coordinate group activity:

The screenshot shows a Netscape browser window displaying a WebCT discussion page. The browser's address bar shows the URL: http://webct.stevens.edu/SCRIPT/101562003F/scripts/serve_home. The page title is "2003 Fall: CPE 423A (Engineering Design VII - 1...". The discussion is titled "Discussion: View Designer Options".

The sidebar on the left contains the following navigation links:

- Control Panel
- Visible to Designers
- View Designer Map
- Add Page or Tool
- Manage Files
- Manage Course
- Change Settings
- Content Assistant
- Course Menu
 - Homepage
 - Calendar
 - Mail
 - Discussion
 - Deliver: Status
 - SD Website
 - Class Slides
 - Deliver: Format
 - SD Purpose
 - Grading Policy
 - Projects
 - 2000F - 2001S
 - 2001F - 2002S
 - 2002F - 2003S
 - Current
 - Useful Links
 - ECE Faculty

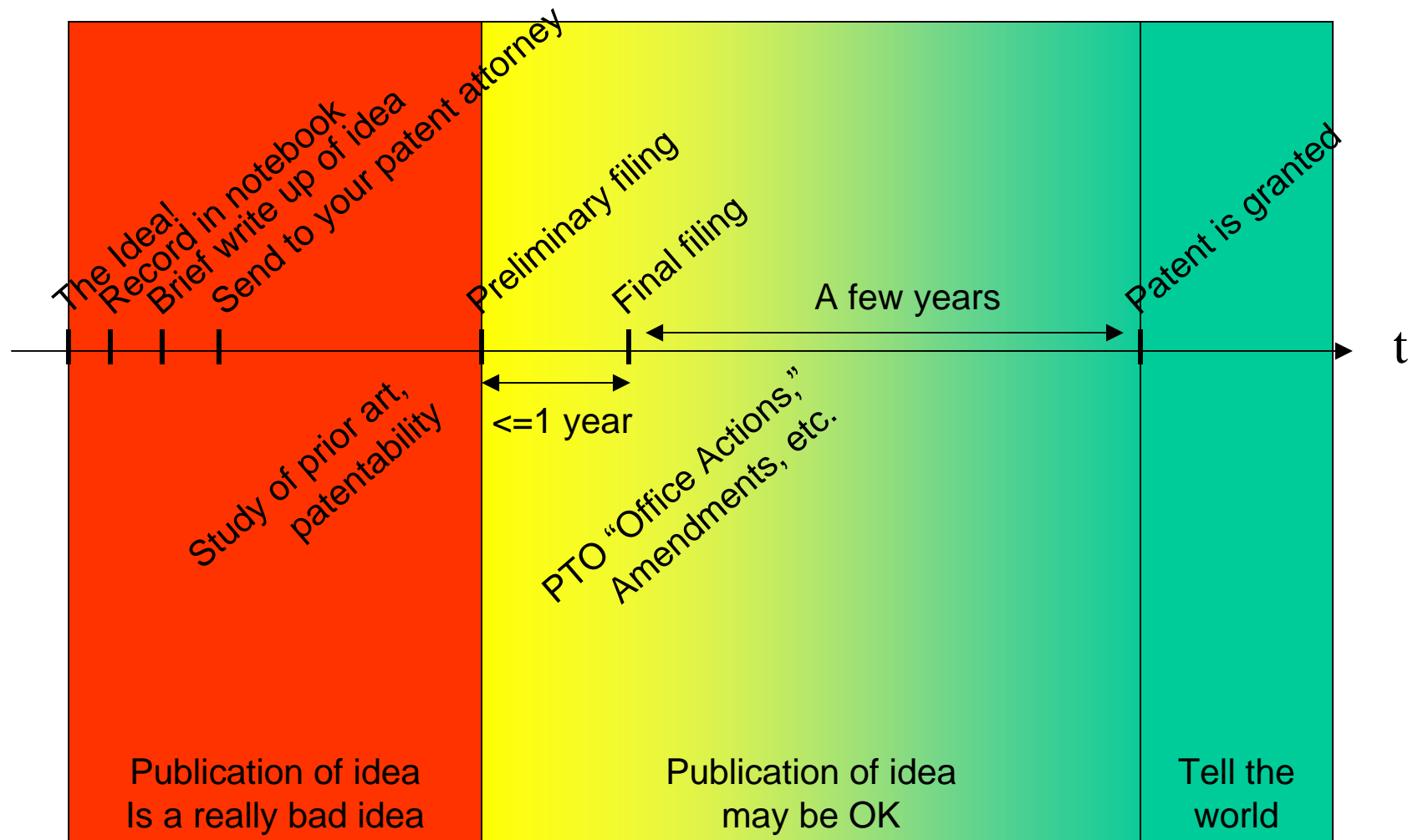
Senior Design Students Not Yet Known To Be In A Project Team

Abraham	Drobik	Herrera	Micchelli	Singh
Acosta	Drozd	Ho	Mich	Singh
Baptiste	Evans	Huang	Oppong	Sosinsky
Battersby	Firner	Iwai	Outram	Srinivasan
Bautista	Ganz	Jaime	Parekh	Stark
Bennett	Garces	Juell	Parikh	Strein
Best	Garrison	Karshner	Patel	Student
Bianchi	George	Kerr	Patel	Sukharan
Bossola	George	Klucsarits	Philipose	Svihra
Cai	George	Koscinski	Podgorsek	Swartout
Camino	Girard	Koshy	Price	Szlezak
Campos Giraldo	Gonzalez	Kramnick	Rajan	Taormina
Ceanfaglione	Gonzalez	Kukis	Rogers	Telford
Cheung	Guanlao	Lontoc	Rower	Teotia
Cho	Guda	Lutz	Rozanski	Thakker
Chowdhury	Halli	Marincas	Santoro	Tiu
Civick	Hashmi	Marmolejos	Saul	Toledo
Clark	Havens	Martin	Schatz	Uku
Clarke	Haydu	McAvoy	Schweizer	Vo
Creswick	Hayman	McCaughey	Sesti	Wan
Criss	Henry	McKnight	Shah	Yun
Cummings	Hernandez	Mendieta	Siegwarth	

Patents, Copyrights, Trade Secrets, Intellectual Property, and Technical Business Ethics

- Caveat: I am not a lawyer, but I know some good lawyer jokes...
- Patent
 - Describes a process, method, apparatus to perform a function that is:
 - Useful – it must **do** something
 - Novel – no one may have described it before
 - Non-obvious to “a person of ordinary skill in the art” – “*I could have thought of that!*”
 - 20 year protection from filing of idea with US PTO
 - Prevents others from using your ideas
 - Specification and Claims
- Copyright
 - Protects the *expression* of original work by the author, rather than the work itself
 - Normally used with literary, dramatic, musical, artistic, and some other intellectual works
 - Gives copyright owner exclusive right to distribute, perform, display, etc., work
- Trademark
 - A word, symbol, or device used in trade (business) to indicate source of product or service, to distinguish it from others.
- Trade secret
 - Unpublished ideas, documents, processes, procedures, recipes, ..., used by a company in their business

Patent Process



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Protecting IP

- Employee Confidentiality Agreements:
 - “We will sue you if you talk”
- Non-Compete Agreements
 - “What you learned here stays here” – pre-nuptials for the workers
- IP Assignment Agreements:
 - “We own your every waking thought. Maybe your dreams, too”
- Non-Disclosure Agreements (NDA):
 - “Forget what we told you when you leave the building”

Technical Business Ethics

- Extrapolating from open literature
- Competitive assessment
- Probing for information at trade shows, conferences
- Reverse-engineering
- Software disassembly
- Dumpster-diving
- Hacking into competitor's systems