

5-72 members
161216
Chris
5-72 members

Department of Chemical Engineering, Rubric for Grading ChBE 411 Senior Design Oral Reports - Fall 2008

Group members: *Eustace, Moor, William, W.H*

Evaluator: *Gannon*

Project Title/Topic: *Agave → Biodiesel*

Team Presentation Evaluation Form (100 points total)

1. Technical Content (70 points)	Not Addressed	Needs Improvement	Meets expectations	Exceeded Expectations	Comments
Formulates a design plan to attain a stated objective			X		
Approaches are appropriate for the project			X		
Work is appropriate for the time and resources available			X		
Describes fundamental, relevant scientific and/or engineering principles			X		
Demonstrates understanding of required technical aspects			X		
Presentation is technically sound			X		
Uses suitable technical resources (literature, texts, etc)			X		
2. Oral presentation (20 points)					
Speaks comfortably with minimal prompts (notecards)			X		
Uses proper American English			X		
Uses visual aids effectively			X		
Speaks at a technical level suited for the audience			X		
Delivers organized oral presentation effectively.			X		
Presents well .mechanically. (does not block screen or exhibit nervous behaviors, etc.)			X		
Makes sufficient eye contact			X		
Speaks at an appropriate volume			X		
Handles questions well			X		
Smooth transitions between group members'			X		
3. Professionalism and team coordination (10 points)					
Professional appearance			X		
Professional language			X		
Professional attitude			X		
Shares credit with team members			X		

TOTAL POINTS: 90

General comments:

Group members: *Everett Eustance, Laura Moon, Luke Williams, Jenna Witt*

Project Title/Topic: *Algae to biodiesel*

Evaluator: *JDS*

- I prefer all 4 participating in F&S rather than 2 presenting

Team Presentation Evaluation Form (100 points total)

1. Technical Content (70 points)	20	Not Addressed	Needs Improvement	Meets expectations	Exceeded Expectations	Comments
Formulates a design plan to attain a stated objective					✓	
Approaches are appropriate for the project						
Work is appropriate for the time and resources available						
Describes fundamental, relevant scientific and/or engineering principles						
Demonstrates understanding of required technical aspects						
Presentation is technically sound					✓	<i>- Luke - beautiful physics explanation of ultrasound reactor at</i>
Uses suitable technical resources (literature, texts, etc)					✓	
2. Oral presentation (20 points)	18			✓		<i>- More text - less internet</i>
Speaks comfortably with minimal prompts (notecards)					✓	
Uses proper American English					✓	
Uses visual aids effectively					✓	
Speaks at a technical level suited for the audience					✓	
Delivers organized oral presentation effectively.					✓	
Presents well .mechanically. (does not block screen or exhibit nervous behaviors, etc.)					✓	
Makes sufficient eye contact					✓	
Speaks at an appropriate volume					✓	
Handles questions well					✓	
Smooth transitions between group members'					✓	
3. Professionalism and team coordination (10 points)	9			✓		
Professional appearance						
Professional language					✓	
Professional attitude					✓	
Shares credit with team members					✓	

TOTAL POINTS: *97*

General comments:

- Chloro/a - lipid content ~30%
- Bio comparison to Petro $P_{E_{petro}} = 36k \text{ kJ/L}$, $P_{E_{bio}} = 32.7k \text{ kJ/L}$ $T_{res} = \frac{1}{2} \sim 15 \text{ days}$
- Biodiesel & glycerol (uses?) 0.66 g/gal - power - Biomass 3700 g/hr - Flocculation - A_{lum} - dissolve w/ air suspension 4g?
- Ultrasound 18 kHz - break cells - Resin 20 g/L - Hot air - Reg. "fertilizer" Nitrate - 20 min. a bit
- 132 ft x 2.5 mile x 1 ft 500 hp 600 gpm

Group members: Everett, Laura, Luke, & Jenna

Project Title/Topic: *Algae to Biodiesel*

Evaluator: *Abbie Richards*

Team Presentation Evaluation Form (100 points total)

1. Technical Content (70 points)	68	Not Addressed	Needs Improvement	Meets expectations	Exceeded Expectations	Comments
Formulates a design plan to attain a stated objective					X	
Approaches are appropriate for the project					X	
Work is appropriate for the time and resources available				X		
Describes fundamental, relevant scientific and/or engineering principles					X	
Demonstrates understanding of required technical aspects						
Presentation is technically sound				X		
Uses suitable technical resources (literature, texts, etc)				X		
2. Oral presentation (20 points)	20					
Speaks comfortably with minimal prompts (notecards)				X		
Uses proper American English				X		
Uses visual aids effectively					X	
Speaks at a technical level suited for the audience				X		
Delivers organized oral presentation effectively.					X	
Presents well .mechanically. (does not block screen or exhibit nervous behaviors, etc.)				X		
Makes sufficient eye contact				X		
Speaks at an appropriate volume				X		
Handles questions well					X	
Smooth transitions between group members'				X		Good job handling questions as a group
3. Professionalism and team coordination (10 points)	8					
Professional appearance						
Professional language			X	X		tuck shirt in!
Professional attitude					X	
Shares credit with team members				X		

TOTAL POINTS: 96

General comments:

→ think more about water issues. Duncan had a really good point about the CD River → Also get a plan for your glycerin it will be a major issue for your operation

Pumping costs? OK

Group members: Jenna, Luke, Everett, Laura
 Evaluator: Peyton
 Project Title/Topic: ALGAE TO BIOREFUEL

Team Presentation Evaluation Form (100 points total)

1. Technical Content (70 points)	Not Addressed	Needs Improvement	Meets expectations	Exceeded Expectations	Comments
Formulates a design plan to attain a stated objective			✓		
Approaches are appropriate for the project			✓		
Work is appropriate for the time and resources available				✓	
Describes fundamental, relevant scientific and/or engineering principles			✓		
Demonstrates understanding of required technical aspects			✓		
Presentation is technically sound				✓	
Uses suitable technical resources (literature, texts, etc)			✓		
2. Oral presentation (20 points)					
Speaks comfortably with minimal prompts (notecards)				✓	
Uses proper American English			✓		
Uses visual aids effectively			✓		
Speaks at a technical level suited for the audience			✓		
Delivers organized oral presentation effectively.			✓		
Presents well .mechanically. (does not block screen or exhibit nervous behaviors, etc.)				✓	
Makes sufficient eye contact			✓		
Speaks at an appropriate volume			✓		
Handles questions well			✓		
Smooth transitions between group members'			✓		
3. Professionalism and team coordination (10 points)					
Professional appearance			✓		
Professional language			✓		
Professional attitude			✓		
Shares credit with team members			✓		

TOTAL POINTS: 91

General comments:

H2O

GREEN

2 minutes processing - new location

Group members: Everett Euskice, Laura Thom, Luke Williams, Jenna Witt

Project Title/Topic: *Algae Biofuel*

Evaluator: *R. Gelsbach*

Team Presentation Evaluation Form (100 points total)

1. Technical Content (70 points)	65	Not Addressed	Needs Improvement	Meets expectations	Exceeded Expectations	Comments
Formulates a design plan to attain a stated objective					✓	
Approaches are appropriate for the project					✓	
Work is appropriate for the time and resources available				✓		
Describes fundamental, relevant scientific and/or engineering principles				✓		
Demonstrates understanding of required technical aspects				✓		
Presentation is technically sound				✓		
Uses suitable technical resources (literature, texts, etc)		✓				<i>a few side shows/issues to be addressed</i>
2. Oral presentation (20 points)	17					<i>nice job</i>
Speaks comfortably with minimal prompts (notecards)				✓		
Uses proper American English				✓		
Uses visual aids effectively				✓		
Speaks at a technical level suited for the audience				✓		
Delivers organized oral presentation effectively.				✓		
Presents well .mechanically. (does not block screen or exhibit nervous behaviors, etc.)					✓	
Makes sufficient eye contact					✓	
Speaks at an appropriate volume				✓		
Handles questions well				✓		
Smooth transitions between group members'					✓	
3. Professionalism and team coordination (10 points)	8					
Professional appearance				✓		
Professional language				✓		
Professional attitude				✓		
Shares credit with team members				✓		

TOTAL POINTS: 90

General comments: *Types "Process outline" Separations need to address nutrient (N,P) requirements, CO₂ usage, glycerol usage*

Group members: EVERETT, LAURA, LUKE, JENNA

Project Title/Topic: BIOALGAL OIL

Evaluator:

Team Presentation Evaluation Form (100 points total)

1. Technical Content (70 points)	Not Addressed	Needs Improvement	Meets expectations	Exceeded Expectations	Comments
Formulates a design plan to attain a stated objective					
Approaches are appropriate for the project					
Work is appropriate for the time and resources available					
Describes fundamental, relevant scientific and/or engineering principles					
Demonstrates understanding of required technical aspects					
Presentation is technically sound					
Uses suitable technical resources (literature, texts, etc)					
2. Oral presentation (20 points)					
Speaks comfortably with minimal prompts (notecards)					
Uses proper American English					
Uses visual aids effectively					
Speaks at a technical level suited for the audience					
Delivers organized oral presentation effectively.					
Presents well .mechanically. (does not block screen or exhibit nervous behaviors, etc.)					
Makes sufficient eye contact					
Speaks at an appropriate volume					
Handles questions well					
Smooth transitions between group members'					
3. Professionalism and team coordination (10 points)					
Professional appearance					
Professional language					
Professional attitude					
Shares credit with team members					

TOTAL POINTS: 91 - NICE JOB HANDLING BACKLASH OF QUESTIONS
General comments: - WELL PREPARED

Group members: JENNA WITT
LAURA MOON

EVERETT EUSTANCE
LUKE WILLIAMS

Project Title/Topic: ALGAE → BIODIESEL

Evaluator:

Team Presentation Evaluation Form (100 points total)

1. Technical Content (70 points)	Not Addressed	Needs Improvement	Meets expectations	Exceeded Expectations	Comments
Formulates a design plan to attain a stated objective			X		
Approaches are appropriate for the project			X		
Work is appropriate for the time and resources available		X			
Describes fundamental, relevant scientific and/or engineering principles		(Too Broad in scope)	X		
Demonstrates understanding of required technical aspects			X		
Presentation is technically sound			X		
Uses suitable technical resources (literature, texts, etc)			X		
2. Oral presentation (20 points)			X		
Speaks comfortably with minimal prompts (notecards)			X		
Uses proper American English			X		
Uses visual aids effectively			X		
Speaks at a technical level suited for the audience			X		
Delivers organized oral presentation effectively.			X		
Presents well .mechanically. (does not block screen or exhibit nervous behaviors, etc.)			X		
Makes sufficient eye contact			X		
Speaks at an appropriate volume			X		
Handles questions well			X		
Smooth transitions between group members'			X		
3. Professionalism and team coordination (10 points)					
Professional appearance			X		
Professional language			X		
Professional attitude			X		
Shares credit with team members			X		

TOTAL POINTS: 85

General comments:

Group members: Eustance, Mann, Williams, Witt

Project Title/Topic: Algae to Biodiesel

Evaluator: Keys

Team Presentation Evaluation Form (100 points total)

1. Technical Content (70 points)	Not Addressed	Needs Improvement	Meets expectations	Exceeded Expectations	Comments
Formulates a design plan to attain a stated objective			X		
Approaches are appropriate for the project			X		
Work is appropriate for the time and resources available					
Describes fundamental, relevant scientific and/or engineering principles					
Demonstrates understanding of required technical aspects			X		
Presentation is technically sound			X		
Uses suitable technical resources (literature, texts, etc)		X	X		
2. Oral presentation (20 points)					I am concerned w/ some assumptions
Speaks comfortably with minimal prompts (notecards)					
Uses proper American English			X	X	Great presentation style
Uses visual aids effectively			X		
Speaks at a technical level suited for the audience			X		
Delivers organized oral presentation effectively.				X	
Presents well .mechanically. (does not block screen or exhibit nervous behaviors, etc.)			X		
Makes sufficient eye contact			X		
Speaks at an appropriate volume			X		
Handles questions well			X		
Smooth transitions between group members'			X		
3. Professionalism and team coordination (10 points)					
Professional appearance		X			
Professional language			X		
Professional attitude			X		
Shares credit with team members			X		

TOTAL POINTS: _____

General comments: _____