

2011-12

EVALUATION OF EOC4804 SENIOR OCEAN ENGINEERING DESIGN PROJECT

COMPLETED EVALUATION FORMS

Project Title: ARES – Energy Scavenging Ship

EVALUATORS (Internal)

1. Dr. Manhar Dhanak, Department of Ocean and Mechanical Engineering, FAU
2. Dr. Stewart Glegg, Department of Ocean and Mechanical Engineering, FAU
3. Dr. Edgar An, Department of Ocean and Mechanical Engineering, FAU
4. Dr. R. Granata, Department of Ocean and Mechanical Engineering, FAU
5. Dr. P. Beaujean, Department of Ocean and Mechanical Engineering, FAU
6. Dr. F Presuel-Moreno, Department of Ocean and Mechanical Engineering, FAU
7. Dr. M. Madani, Adjunct Faculty, Department of Ocean and Mechanical Engineering, FAU
8. Dr. J. vanZwieten, SNMREC, Florida Atlantic University
9. D. Briggs, Adjunct Faculty (retd.) Department of Ocean and Mechanical Engineering, FAU
10. Dr. Karl von Ellenrieder (responsible for individual assessments and course grading)

EVALUATORS (External – Industry & Navy)

1. Kevin Meier, Naval Surface Warfare Center, Carderock Division, US Navy
2. Bill Venezia, Naval Surface Warfare Center, Carderock Division, US Navy
3. Patric Hudson, Naval Surface Warfare Center, Carderock Division, US Navy
4. Eric Dykes, Naval Surface Warfare Center, Carderock Division, US Navy
5. Dr. Frank Leban, Office of Naval Research, US Navy
6. Dr. Paul Rushfeldt, Lockheed Martin Corporation
7. Joe Lambiote, Lockheed Martin Corporation
8. Floria Clements, Lockheed Martin Corporation
9. Nicolas Agostinelli, Lockheed Martin Corporation
10. Jim Whitney, Lockheed Martin Corporation

(To be completed by Industry and Navy/ONR attendees/representatives and OME/College faculty attending the presentation)

EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: Ares Energy Scavenging Ship

Evaluator's Name and Affiliation (Please Print): Maurilio Cane

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

| Item | Evaluation | | |
|---|------------|--------------|-----------|
| | Poor | Satisfactory | Excellent |
| a. An ability to apply knowledge of mathematics, science, and engineering | | ✓ | |
| b. An ability to design and construct experiments, as well as to analyze and interpret data | | ✓ | |
| c. An ability to design a system, component, or process to meet desired needs | | | ✓ |
| d. An ability to function on multi-disciplinary teams | | | ✓ |
| e. An ability to identify, formulate, and solve engineering problems | | ✓ | |
| f. An understanding of professional and ethical responsibility | | ✓ | |
| g. An ability to communicate effectively | | | ✓ |
| h. The broad education necessary to understand the impact of engineering solutions in a global and societal context | | ✓ | |
| i. A recognition of the need for and an ability to engage in lifelong learning | | ✓ | |
| j. A knowledge of contemporary issues | | ✓ | |
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Additional Comments: (Continue on the other side, if more space is needed.)

(To be completed by Industry and Navy/ONR attendees/representatives and OME/College faculty attending the presentation)

EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Ares Energy Scavenging Ship**

Evaluator's Name and Affiliation (Please Print): STEWART A LEGG

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

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EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Ares Energy Scavenging Ship**

Evaluator's Name and Affiliation (Please Print): Edgar An

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

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EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: Ares Energy Scavenging Ship

Evaluator's Name and Affiliation (Please Print): R. GRANATA

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

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PROJECT SHOULD HAVE BEEN MORE FOCUSED ON
EVALUATION OF RESULTS. WHAT IS THE MERIT OF SCAVENGING?

(To be completed by Industry and Navy/ONR attendees/representatives and OME/College faculty attending the presentation)

EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Ares Energy Scavenging Ship**

Evaluator's Name and Affiliation (Please Print): Beaujean - FAU

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

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| e. An ability to identify, formulate, and solve engineering problems | ✓ | | |
| f. An understanding of professional and ethical responsibility | ✗ | ✓ | |
| g. An ability to communicate effectively | ✗ | ✓ | |
| h. The broad education necessary to understand the impact of engineering solutions in a global and societal context | ✗ | ✓ | |
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(To be completed by Industry and Navy/ONR attendees/representatives and OME/College faculty attending the presentation)

EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Ares Energy Scavenging Ship**

Evaluator's Name and Affiliation (Please Print): Francisco Presuel

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

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(To be completed by Industry and Navy/ONR attendees/representatives and OME/College faculty attending the presentation)

EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Ares Energy Scavenging Ship**

Evaluator's Name and Affiliation (Please Print): Mahmoud Madani

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

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Additional Comments: (Continue on the other side, if more space is needed.)

They did an excellent job and excellent presentation:

(To be completed by Industry and Navy/ONR attendees/representatives and OME/College faculty attending the presentation)

EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: Ares Energy Scavenging Ship

Evaluator's Name and Affiliation (Please Print): James Van Zwieten SNMREC

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

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(To be completed by Industry and Navy/ONR attendees/representatives and OME/College faculty attending the presentation)

EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: Ares Energy Scavenging Ship

Evaluator's Name and Affiliation (Please Print): Douglas Briggs

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

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| f. An understanding of professional and ethical responsibility | | (Not Determined) | |
| g. An ability to communicate effectively | | | ✓ |
| h. The broad education necessary to understand the impact of engineering solutions in a global and societal context | | | ✓ |
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Additional Comments: (Continue on the other side, if more space is needed.)

Good Presentation By All

New Idea For Collapseable Fletcher Rotor -
Look at Drop Stretch Fabric that ~~can~~ can
be inflated / deflated. Has good structural
characteristics.

(To be completed by Industry and Navy/ONR attendees/representatives and OME/College faculty attending the presentation)

EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: ~~ARES ENERGY SCAVENGING SHIP~~
~~Vertipro Vertical Profiler~~

RETIRED LOCKHEED MARTIN

Evaluator's Name and Affiliation (Please Print): PAUL RUSHFELDT - SELF

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

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EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: Ares Energy Scavenging Ship

Evaluator's Name and Affiliation (Please Print): Joe Lambotte, Lockheed Martin

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

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EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: Ares Energy Scavenging Ship

Evaluator's Name and Affiliation (Please Print): Fiona Clements / OEAlum / UNCO

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

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Great inclusion of the "Problem" the design will address.

Great presentation and clear vocal presentation. All had a well understanding of the tasks and communicated that to the audience very well.

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EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: Ares Energy Scavenging Ship

Evaluator's Name and Affiliation (Please Print): Nicolas Agostinelli (Lockheed Martin)

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EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: Ares Energy Scavenging Ship

Evaluator's Name and Affiliation (Please Print): Jim Whitney - Lockheed Martin

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EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Ares Energy Scavenging Ship**

Evaluator's Name and Affiliation (Please Print): Kevin Meier NSWC CD

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Good job on communicating the project details

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EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: Ares Energy Scavenging Ship

*NAVAL Surface Warfare
Center Carderock
Division*

Evaluator's Name and Affiliation (Please Print): William A. Venezia

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| k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice | | | ✓ |

Additional Comments: (Continue on the other side, if more space is needed.)

(To be completed by Industry and Navy/ONR attendees/representatives and OME/College faculty attending the presentation)

EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: Ares Energy Scavenging Ship

Evaluator's Name and Affiliation (Please Print): PATRICK HUDSON, NSWC CARDEROCK

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

| Item | Evaluation | | |
|---|------------|--------------|-----------|
| | Poor | Satisfactory | Excellent |
| a. An ability to apply knowledge of mathematics, science, and engineering | | X | |
| b. An ability to design and construct experiments, as well as to analyze and interpret data | | | X |
| c. An ability to design a system, component, or process to meet desired needs | | X | |
| d. An ability to function on multi-disciplinary teams | | | X |
| e. An ability to identify, formulate, and solve engineering problems | | | X |
| f. An understanding of professional and ethical responsibility | | | X |
| g. An ability to communicate effectively | | | X |
| h. The broad education necessary to understand the impact of engineering solutions in a global and societal context | | | X |
| i. A recognition of the need for and an ability to engage in lifelong learning | | | X |
| j. A knowledge of contemporary issues | | X | |
| k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice | | X | |

Additional Comments: (Continue on the other side, if more space is needed.)

- GOOD APPLICATION OF ENGINEERING PROCESS.
- ACTUAL IMPLEMENTATION WOULD BE DIFFICULT, SINCE DECK AREA ON REAL SHIPS IS LIMITED.