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2004-04-23

Naval Postgraduate School, Wayne E. Meyer  
Institute of Systems Engineering:  
Opportunities for Continuing Learning and Research

Calvano, Charles N.

Monterey, California. Naval Postgraduate School

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<http://hdl.handle.net/10945/55377>

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# Naval Postgraduate School



## Wayne E. Meyer Institute of Systems Engineering



# Opportunities for Continuing Learning and Research

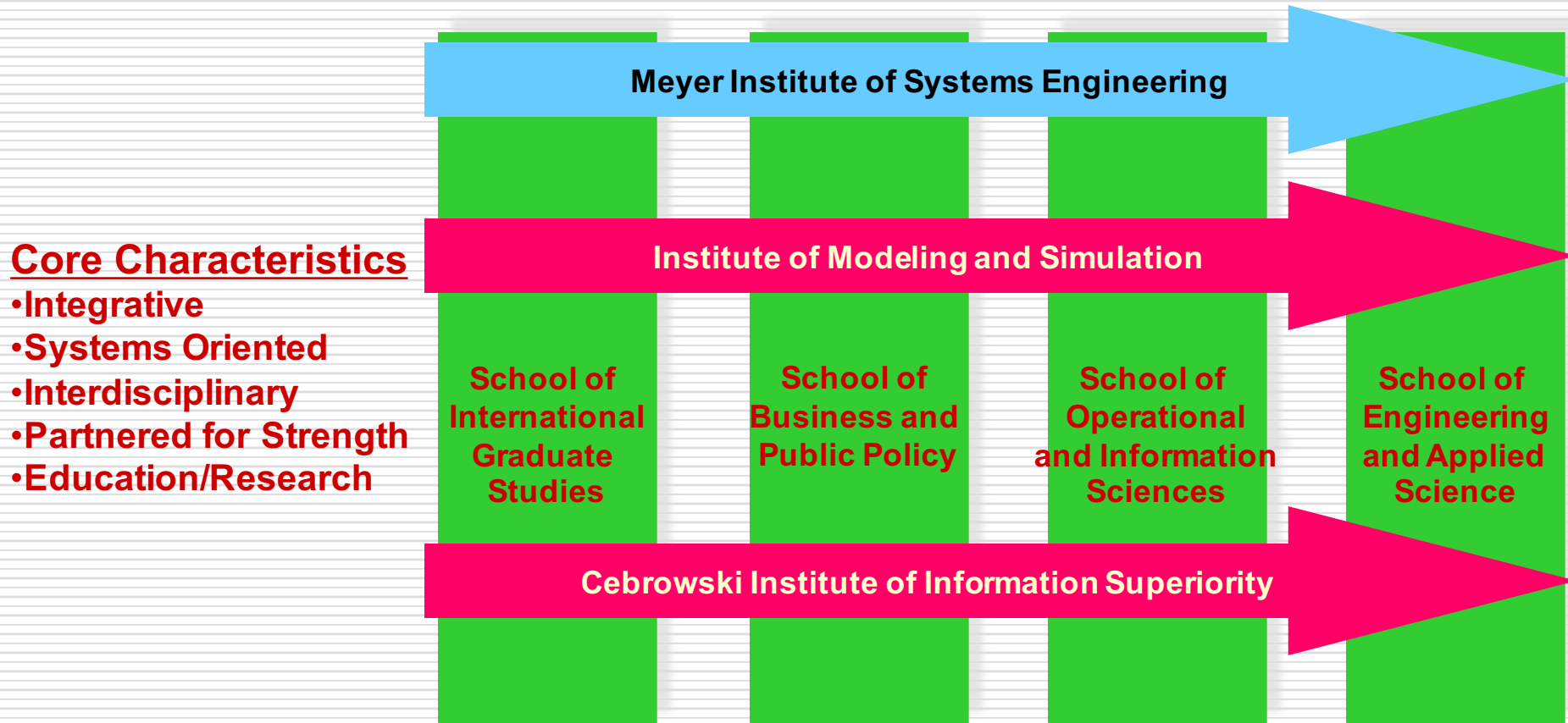
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Professor Charles N. Calvano  
Associate Director for Education\*

\*Moving to new position; succeeded by Dr. Dave Olwell  
(831) 636 3583; [dholwell@nps.navy.mil](mailto:dholwell@nps.navy.mil)

# NPS Aligned for Relevance and Excellence

Institutes ensure that the academic tools learned in the Schools are applied to military challenges.



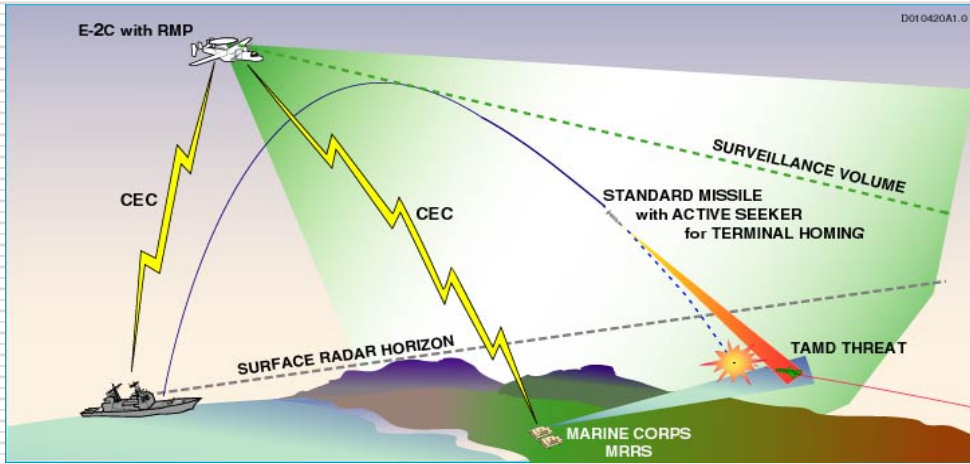
Graduate Schools provide the academic structure needed by students to cope with future challenges

# State of the Institute: Current Education Programs and Student Population

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- On-Campus
    - Systems Engineering and Analysis (SEA)
      - SEA-5 (20, including 7 IGEPS)
      - SEA-6 (9, including 1 CPT, USA)
      - SEA-7 (20, including 1 MAJ, USA and 4 INTL)
  - Off-Site/Distance Learning
    - MS in Systems Engineering (118)
    - Systems Engineering Management (22)
    - SEA DL Certificate Program (17 in San Diego)
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# Campus-Wide Integrated Projects



“Customer” with a problem

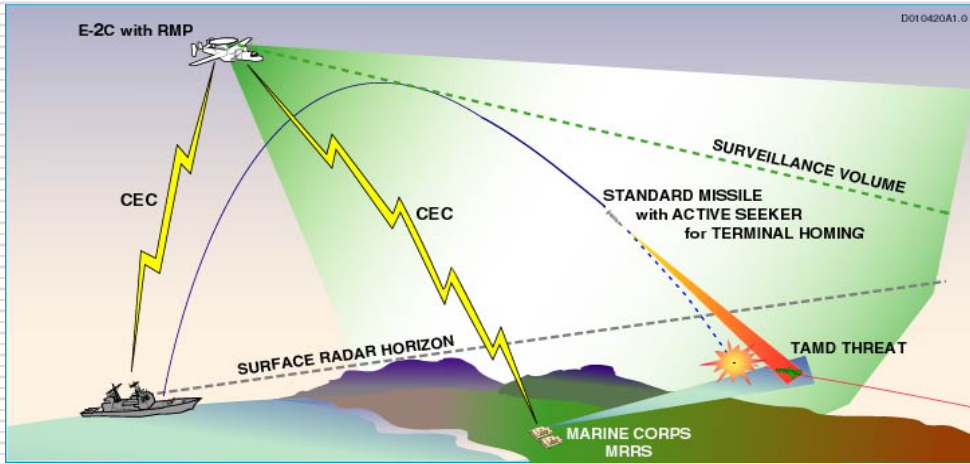
Defense Problem



NPS Student/Faculty Project



# Campus-Wide Integrated Projects

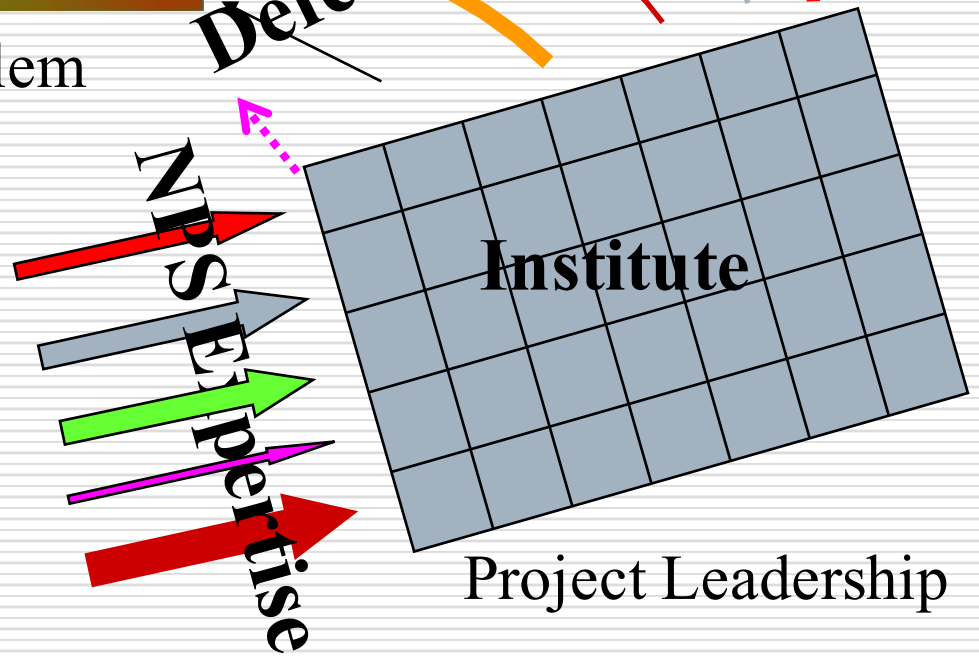


“Customer” with a problem

**Defense Problem**



NPS Student/Faculty Project



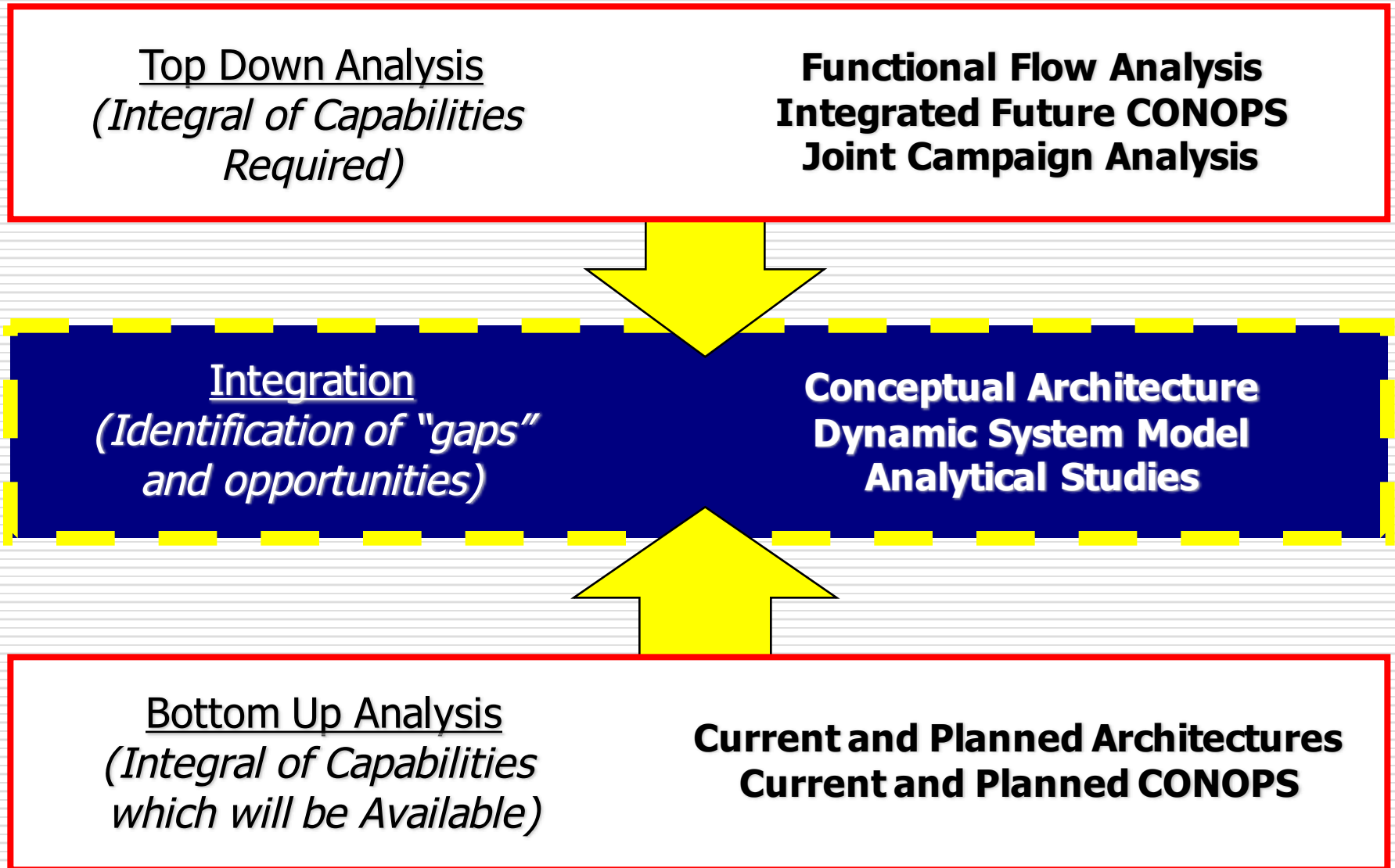
# Value of Integrated Studies at NPS

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- Large numbers of students exposed to open-ended, demanding analytical and design studies
  - Faculty/student teams combine strengths of both
  - Possible to produce results of interest to Navy/DOD
    - Insights
    - Identification of trends and sensitivities
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# How Do We Typically Attack Task?



# Who Was Involved?

## Expeditionary Warfare Example

Aero Design Team:  
Aircraft Design

TSSE Design Team:  
Ship Design

**A Team of Teams undertaking a  
major System of Systems Study**

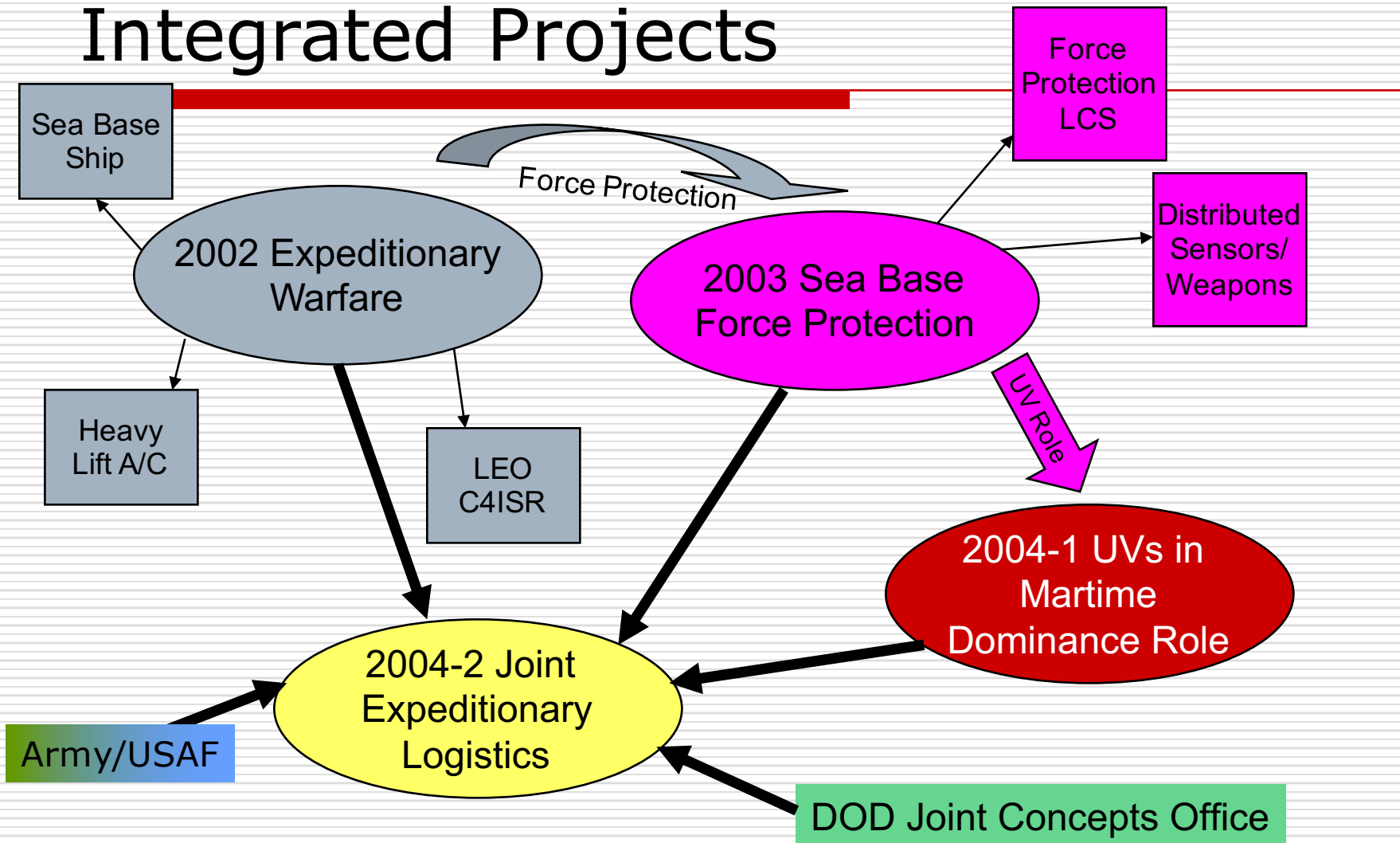
Architectural  
Analysis

Space Operations:  
Satellite Design

Operations Research:  
Joint Campaign

92 Students from 7 different curricula/programs  
and 18 faculty members.....

# Meyer Institute-Led Integrated Projects





**Naval Postgraduate School  
Monterey, CA**