



Annual Report

Department of Sustainable Construction Management and Engineering

Academic Year 2009-2010

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Chair and Associate Professor

August 1, 2010

*The mission of the
Department of Sustainable Construction Management and Engineering is to promote
the use of sustainable construction practices and renewable wood products
through teaching, research and outreach.*

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Retrospective

Introduction

Highlights of the year 2009-2010:

- The department name was changed to Sustainable Construction Management and Engineering
- The major in Wood Products Engineering will phase out as the current WPE students complete their degree program.
- The department is in the process of a self study for SUNY to be completed 2010-11.
- Significant changes were made to the Construction Management curriculum including new courses in several areas of sustainable construction.
- Instructor Kenneth Tiss was granted Continuing Appointment (tenure).
- A selected group of Construction Management seniors and juniors participated in the AGC Regional (Division 1) Student Competition with faculty advisor Ken Tiss.
- Our department Secretary, Judy Barton, was the recipient of the SUNY Chancellor's Award for Excellence in Classified Service
- Outreach Activities:
 - Speaker Series in Sustainable Construction and Renewable Materials
 - Kiln Drying Workshop, January 2010; William Smith
 - Participation in the Construction Career Day, October 2009, Syracuse, NY; Ken Tiss was on the planning committee for the third year. The department also participated through sponsorship and a booth attended by Paul Crovella, Jennifer Smith and George Kyanka
 - Green Building Conference, March 2010; Robert Meyer
 - The 21st Annual Balsa Bridge Competition was held March 26, 2010. Ten high school and middle school teams participated. The activity was sponsored by the Student Construction Association, with assistance from William Kelleher and faculty advisor Rafaat Hussein

Faculty and Staff in the Department of Sustainable Construction Management and Engineering:

| | | |
|------------------------------|-------------------------------|-------------------------------|
| Susan E. Anagnost, PhD | Chair and Associate Professor | Continuing Appointment |
| Paul Crovella, M Eng, PE | Instructor | Tenure-track term appointment |
| Robert B. Hanna, PhD | Professor | Continuing Appointment |
| George H. Kyanka, PhD | Professor | Continuing Appointment |
| Rafaaf Morsi-Hussein, PhD | Associate Professor | Continuing Appointment |
| Robert W. Meyer, PhD | Professor | Continuing Appointment |
| Jennifer L. Smith, PhD, PE | Assistant Professor | Tenure-track term appointment |
| William B. Smith, PhD | Professor | Continuing Appointment |
| Kenneth J. Tiss, MS, AIC,CPC | Instructor | Continuing Appointment |

In addition to our nine faculty positions, four Visiting Instructors were hired to teach required and elective courses to supplement our curriculum.

| Visiting Instructor | Fall 2008 | Spring 2009 |
|--|--------------------|--|
| Leonard Woods Sheila Weed Kevin Stack Ronald Kenyon | NYS Building Codes | Timber Design (req.) Computer-Aided Design and Drafting (req.) Sustainable Innovations in Residential Construction |

Professional Support Staff:

William L. Kelleher, MS, Instructional Support Specialist and Laboratory Manager, Wood Engineering Lab

Robert P. Smith, MS, Instructional Support Specialist, N. C. Brown Center for Ultrastructure Studies

Department Secretary:

Judy Barton

1. Teaching

a. Workload summary by faculty member (provided by OIR)

Summary of Teaching Workload 2009-10

| Instructor Name | RESEARCH | RESEARCH | Problem / | Problem / | CLASS | CLASS | TOTAL |
|--------------------|------------|----------|-----------|-----------|------------|-------|-------|
| | Undergrad. | Grad. | Seminar | Seminar | Undergrad. | Grad. | |
| ANAGNOST, SUSAN | 0 | 18 | 0 | 0 | 20 | 5 | 43 |
| CROVELLA, PAUL | 0 | 16 | 0 | 0 | 207 | 18 | 241 |
| HANNA, ROBERT B. | 3 | 0 | 0 | 0 | 0 | 75 | 78 |
| HUSSEIN, RAFAAT | 10 | 0 | 0 | 0 | 403 | 0 | 413 |
| KENYON, RONALD | 0 | 0 | 0 | 0 | 42 | 0 | 42 |
| KYANKA, GEORGE H. | 0 | 6 | 99 | 0 | 112 | 0 | 217 |
| MEYER, ROBERT W. | 1 | 9 | 0 | 0 | 177 | 3 | 190 |
| SMITH, JENNIFER L. | 0 | 0 | 0 | 0 | 255 | 12 | 267 |
| SMITH, WILLIAM | 0 | 2 | 0 | 0 | 58 | 0 | 60 |
| STACK, KEVIN | 0 | 0 | 0 | 0 | 36 | 12 | 48 |
| TISS, KENNETH | 9 | 17 | 15 | 4 | 390 | 51 | 486 |
| WEED, SHEILA | 0 | 0 | 0 | 0 | 57 | 0 | 57 |
| WOODS, LEONARD | 0 | 0 | 0 | 0 | 93 | 0 | 93 |

Teaching Workload as provided by OIR

| Course | Sec t | Ty p | Title | Instructor | Sum 09 U | Sum 09 G | Fall 09 U | Fall 09 G | Spr 10 U | Spr 10 G | Cr Hr | Resp % | RES CH U | RES CH G | P/S CH U | P/S CH G | CLS CH U | CLS CH G |
|-------------------------------|----------|---------|----------------------------------|---------------------|----------------|----------------|-----------------|-----------------|----------------|----------------|----------|-----------|----------------|----------------|----------------|----------------|----------------|----------------|
| ERE | 59 6 | 11 | Microtechnique | ANAGNOST , SUSAN | 0 | 0 | 1 | 0 | 0 | 0 | 3.0 * | 100 % | 0 | 0 | 0 | 0 | 3 | 0 |
| ERE | 77 0 | 01 | Biodegradation Of Wood | ANAGNOST , SUSAN | 0 | 0 | 0 | 0 | 0 | 1 | 3.0 | 100 % | 0 | 0 | 0 | 0 | 0 | 3 |
| ERE | 79 6 | 06 | Electron Microscopy | ANAGNOST , SUSAN | 0 | 0 | 0 | 0 | 0 | 2 | 2.0 * | 50% | 0 | 0 | 0 | 0 | 0 | 2 |
| ERE | 79 8 | 32 | Resrch/Wood Prod Engr | ANAGNOST , SUSAN | 0 | 0 | 0 | 1 | 0 | 1 | 0.0 | | 0 | 12 | 0 | 0 | 0 | 0 |
| ERE | 99 9 | 32 | Doctoral Thesis Research | ANAGNOST , SUSAN | 0 | 0 | 0 | 1 | 0 | 1 | 0.0 | | 0 | 6 | 0 | 0 | 0 | 0 |
| WP E | 13 2 | 01 | Orient Seminar:CM&WPE | ANAGNOST , SUSAN | 0 | 0 | 5 | 0 | 0 | 0 | 1.0 | 100 % | 0 | 0 | 0 | 0 | 5 | 0 |
| WP E | 37 6 | 01 | Decay Of Wood Products | ANAGNOST , SUSAN | 0 | 0 | 0 | 0 | 4 | 0 | 3.0 | 100 % | 0 | 0 | 0 | 0 | 12 | 0 |
| Totals for ANAGNOST, SUSAN | | | | | | | | | | | | | 0 | 18 | 0 | 0 | 20 | 5 |
| ERE | 49 6 | 03 | Building Information Modeling | CROVELLA, PAUL | 0 | 0 | 14 | 0 | 7 | 0 | 3.0 | 100 % | 0 | 0 | 0 | 0 | 63 | 0 |
| ERE | 59 6 | 01 | Green Building Rating | CROVELLA, PAUL | 0 | 0 | 0 | 4 | 5 | 1 | 3.0 | 100 % | 0 | 0 | 0 | 0 | 15 | 15 |
| ERE | 89 9 | 25 | Masters Thesis Research | CROVELLA, PAUL | 0 | 0 | 0 | 1 | 0 | 2 | 0.0 | | 0 | 16 | 0 | 0 | 0 | 0 |
| WP E | 33 2 | 01 | Mech/Elect Equipment | CROVELLA, PAUL | 0 | 0 | 0 | 0 | 9 | 0 | 3.0 | 100 % | 0 | 0 | 0 | 0 | 27 | 0 |
| WP E | 34 2 | 01 | Light Construction | CROVELLA, PAUL | 0 | 0 | 34 | 1 | 0 | 0 | 3.0 | 100 % | 0 | 0 | 0 | 0 | 102 | 3 |
| Totals for CROVELLA,PAUL | | | | | | | | | | | | | 0 | 16 | 0 | 0 | 207 | 18 |
| ERE | 58 5 | 01 | Microscopy&Photomicrgrphy | HANNA, ROBERT B. | 0 | 0 | 0 | 0 | 0 | 7 | 3.0 | 100 % | 0 | 0 | 0 | 0 | 0 | 21 |
| ERE | 68 5 | 01 | Trans Electron Microscopy | HANNA, ROBERT B. | 0 | 0 | 0 | 0 | 0 | 3 | 5.0 | 100 % | 0 | 0 | 0 | 0 | 0 | 15 |
| ERE | 78 5 | 01 | L Scan Electron Microscopy | HANNA, ROBERT B. | 0 | 0 | 0 | 5 | 0 | 0 | 5.0 | 100 % | 0 | 0 | 0 | 0 | 0 | 25 |

| | | | | | | | | | | | | | | | | | | |
|------------------------------|---------|----|------------------------------|----------------------|----|---|----|---|----|---|-----|-----|----|---|----|---|-------|----|
| ERE | 79 6 | 06 | Electron Microscopy | HANNA, ROBERT B. | 0 | 0 | 0 | 8 | 0 | 2 | 2.0 | 50% | 0 | 0 | 0 | 0 | 0 | 14 |
| WP E | 49 8 | 06 | Research Or Design Prob | HANNA, ROBERT B. | 0 | 0 | 0 | 0 | 1 | 0 | 0.0 | | 3 | 0 | 0 | 0 | 0 | 0 |
| Totals for HANNA, ROBERT B. | | | | | | | | | | | | | 3 | 0 | 0 | 0 | 0 | 75 |
| ERE | 22 2 | 01 | Engr Mechs - Dynamics | HUSSEIN, RAFAAT | 0 | 0 | 0 | 0 | 6 | 0 | 2.0 | 100 | 0 | 0 | 0 | 0 | 12 | 0 |
| ERE | 22 3 | 01 | Statics And Dynamics | HUSSEIN, RAFAAT | 0 | 0 | 39 | 0 | 0 | 0 | 4.0 | 100 | 0 | 0 | 0 | 0 | 156 | 0 |
| ERE | 36 2 | 01 | Mechanics Of Materials | HUSSEIN, RAFAAT | 0 | 0 | 2 | 0 | 56 | 0 | 3.0 | 100 | 0 | 0 | 0 | 0 | 174 | 0 |
| ERE | 49 6 | 13 | Dynamics | HUSSEIN, RAFAAT | 0 | 0 | 1 | 0 | 0 | 0 | 1.0 | 100 | 0 | 0 | 0 | 0 | 1 | 0 |
| FEG | 41 0 | 01 | L Structures | HUSSEIN, RAFAAT | 0 | 0 | 15 | 0 | 0 | 0 | 4.0 | 100 | 0 | 0 | 0 | 0 | 60 | 0 |
| WP E | 49 8 | 04 | Research Or Design Prob | HUSSEIN, RAFAAT | 0 | 0 | 0 | 0 | 4 | 0 | 0.0 | | 10 | 0 | 0 | 0 | 0 | 0 |
| Totals for HUSSEIN, RAFAAT | | | | | | | | | | | | | 10 | 0 | 0 | 0 | 403 | 0 |
| WP E | 33 0 | 01 | Build Codes/Zoning Pract | KENYON, RONALD | 0 | 0 | 14 | 0 | 0 | 0 | 3.0 | 100 | 0 | 0 | 0 | 0 | 42 | 0 |
| Totals for KENYON, RONALD | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 42 | 0 |
| ERE | 22 1 | 01 | Engr Mechanics - Statics | KYANKA, GEORGE H. | 0 | 0 | 26 | 0 | 0 | 0 | 3.0 | 100 | 0 | 0 | 0 | 0 | 78 | 0 |
| ERE | 99 9 | 29 | Doctoral Thesis Research | KYANKA, GEORGE H. | 0 | 0 | 0 | 2 | 0 | 2 | 0.0 | | 0 | 6 | 0 | 0 | 0 | 0 |
| WP E | 30 3 | 01 | Intern/Con Mgt & WPE | KYANKA, GEORGE H. | 0 | 0 | 3 | 0 | 2 | 0 | 0.0 | | 0 | 0 | 15 | 0 | 0 | 0 |
| WP E | 42 2 | 01 | L Composite Materials | KYANKA, GEORGE H. | 0 | 0 | 0 | 0 | 23 | 0 | 3.0 | 50% | 0 | 0 | 0 | 0 | 34.5 | 0 |
| WP E | 49 7 | 01 | Senior Seminar | KYANKA, GEORGE H. | 0 | 0 | 22 | 0 | 6 | 0 | 0.0 | | 0 | 0 | 84 | 0 | 0 | 0 |
| Totals for KYANKA, GEORGE H. | | | | | | | | | | | | | 0 | 6 | 99 | 0 | 112.5 | 0 |
| ERE | 51 9 | 01 | Green Entrepreneurship | LIM, GARY | 0 | 0 | 0 | 0 | 19 | 2 | 3.0 | 100 | 0 | 0 | 0 | 0 | 57 | 6 |
| FOR | 29 6 | 02 | Intro/Green Entrepreneurship | LIM, GARY | 26 | 0 | 0 | 0 | 0 | 0 | 3.0 | 100 | 0 | 0 | 0 | 0 | 78 | 0 |

| | | | | | | | | | | | | | | | | | | | |
|------------------------------------|----|----|---|-----------------------------------|---------------------|---|---|----|---|----|---|-----|----------|----------|----------|----------|----------|------------|-----------|
| FOR | 49 | 02 | | Prof Communication Skills | LIM, GARY | 0 | 0 | 1 | 0 | 0 | 0 | 1.0 | % | 0 | 0 | 0 | 0 | 1 | 0 |
| FOR | 79 | 02 | | Prof Communication Skills | LIM, GARY | 0 | 0 | 0 | 0 | 0 | 4 | 1.0 | % | 0 | 0 | 0 | 0 | 0 | 4 |
| FOR | 79 | 04 | | Prof Communication Skills | LIM, GARY | 0 | 0 | 0 | 1 | 0 | 0 | 1.0 | % | 0 | 0 | 0 | 0 | 0 | 1 |
| Totals for LIM, GARY | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 136 | 11 |
| ERE | 49 | 09 | | Communication/Sci Professionls | MEYER, ROBERT W. | 0 | 0 | 0 | 0 | 1 | 0 | 3.0 | 100 % | 0 | 0 | 0 | 0 | 3 | 0 |
| ERE | 59 | 04 | | Tropical Timbers | MEYER, ROBERT W. | 0 | 0 | 0 | 1 | 0 | 0 | 3.0 | 100 % | 0 | 0 | 0 | 0 | 0 | 3 |
| ERE | 79 | 30 | | Resrch/Wood Prod Engr | MEYER, ROBERT W. | 0 | 0 | 0 | 0 | 0 | 2 | 0.0 | | 0 | 4 | 0 | 0 | 0 | 0 |
| ERE | 89 | 30 | | Masters Thesis Research | MEYER, ROBERT W. | 0 | 0 | 0 | 1 | 0 | 1 | 0.0 | | 0 | 2 | 0 | 0 | 0 | 0 |
| ERE | 99 | 30 | | Doctoral Thesis Research | MEYER, ROBERT W. | 0 | 0 | 0 | 2 | 0 | 1 | 0.0 | | 0 | 3 | 0 | 0 | 0 | 0 |
| WP | 20 | 01 | | Intro/Prof Communications | MEYER, ROBERT W. | 0 | 0 | 0 | 0 | 18 | 0 | 3.0 | 100 % | 0 | 0 | 0 | 0 | 54 | 0 |
| WP | 38 | 01 | | Struct & Prop Of Wood | MEYER, ROBERT W. | 0 | 0 | 0 | 0 | 8 | 0 | 2.0 | 100 % | 0 | 0 | 0 | 0 | 16 | 0 |
| WP | 38 | 01 | | Wood Structure/Properties | MEYER, ROBERT W. | 0 | 0 | 32 | 0 | 0 | 0 | 3.0 | 100 % | 0 | 0 | 0 | 0 | 96 | 0 |
| WP | 38 | 01 | L | Wood And Fiber Ident Lab | MEYER, ROBERT W. | 0 | 0 | 2 | 0 | 0 | 0 | 2.0 | 100 % | 0 | 0 | 0 | 0 | 4 | 0 |
| WP | 39 | 01 | | Fiber Identification Lab | MEYER, ROBERT W. | 0 | 0 | 0 | 0 | 4 | 0 | 1.0 | 100 % | 0 | 0 | 0 | 0 | 4 | 0 |
| WP | 49 | 03 | | Research Or Design Prob | MEYER, ROBERT W. | 0 | 0 | 0 | 0 | 1 | 0 | 0.0 | | 1 | 0 | 0 | 0 | 0 | 0 |
| Totals for MEYER, ROBERT W. | | | | | | | | | | | | | | 1 | 9 | 0 | 0 | 177 | 3 |
| ERE | 89 | 31 | | Masters Thesis Research | SMITH, WILLIAM | 0 | 0 | 0 | 1 | 0 | 1 | 0.0 | | 0 | 2 | 0 | 0 | 0 | 0 |
| WP | 32 | 01 | L | Mechanical Processing | SMITH, WILLIAM | 0 | 0 | 5 | 0 | 0 | 0 | 3.0 | 100 % | 0 | 0 | 0 | 0 | 15 | 0 |
| WP | 32 | 01 | L | Fluid Treatment of Wood | SMITH, WILLIAM | 0 | 0 | 0 | 0 | 3 | 0 | 3.0 | 100 % | 0 | 0 | 0 | 0 | 9 | 0 |
| WP | 42 | 01 | L | Composite Materials | SMITH, WILLIAM | 0 | 0 | 0 | 0 | 23 | 0 | 3.0 | 50% | 0 | 0 | 0 | 0 | 34.5 | 0 |

| | | | | | | | | | | | | | | | | | | |
|-------------------------------|----|----|--------------------------------|--------------------|---|---|----|---|----|---|-----|------|---|---|---|---|------|----|
| Totals for SMITH, WILLIAM | | | | | | | | | | | | | 0 | 2 | 0 | 0 | 58.5 | 0 |
| ERE | 49 | 07 | Sustainable Construction | SMITH, JENNIFER L. | 0 | 0 | 0 | 0 | 12 | 0 | 3.0 | 100% | 0 | 0 | 0 | 0 | 36 | 0 |
| ERE | 53 | 01 | Cost Engineering | SMITH, JENNIFER L. | 0 | 0 | 0 | 1 | 0 | 0 | 3.0 | 100% | 0 | 0 | 0 | 0 | 0 | 3 |
| ERE | 59 | 10 | Sustainable Construction | SMITH, JENNIFER L. | 0 | 0 | 0 | 0 | 0 | 3 | 3.0 | 100% | 0 | 0 | 0 | 0 | 0 | 9 |
| WP E | 33 | 01 | Cost Engineering | SMITH, JENNIFER L. | 0 | 0 | 37 | 0 | 0 | 0 | 3.0 | 100% | 0 | 0 | 0 | 0 | 111 | 0 |
| WP E | 45 | 01 | Construct Contracts/Specs | SMITH, JENNIFER L. | 0 | 0 | 0 | 0 | 36 | 0 | 3.0 | 100% | 0 | 0 | 0 | 0 | 108 | 0 |
| Totals for SMITH, JENNIFER L. | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 255 | 12 |
| ERE | 59 | 14 | Sustainable Innovatns/Res Cons | STACK, KEVIN | 0 | 0 | 0 | 0 | 12 | 4 | 3.0 | 100% | 0 | 0 | 0 | 0 | 36 | 12 |
| Totals for STACK, KEVIN | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 36 | 12 |
| ERE | 52 | 01 | Const Methods&Equipment | TISS, KENNETH | 0 | 0 | 0 | 4 | 0 | 0 | 3.0 | 100% | 0 | 0 | 0 | 0 | 0 | 12 |
| ERE | 53 | 01 | Construction Safety | TISS, KENNETH | 0 | 0 | 0 | 3 | 0 | 0 | 3.0 | 100% | 0 | 0 | 0 | 0 | 0 | 9 |
| ERE | 54 | 01 | Construction Estimating | TISS, KENNETH | 0 | 0 | 0 | 0 | 0 | 1 | 3.0 | 100% | 0 | 0 | 0 | 0 | 0 | 3 |
| ERE | 65 | 01 | Construct Plan/Scheduling | TISS, KENNETH | 0 | 0 | 0 | 5 | 0 | 0 | 3.0 | 100% | 0 | 0 | 0 | 0 | 0 | 15 |
| ERE | 65 | 01 | Construction Project Mgt | TISS, KENNETH | 0 | 0 | 0 | 0 | 0 | 2 | 3.0 | 100% | 0 | 0 | 0 | 0 | 0 | 6 |
| ERE | 79 | 02 | Construction Mgt Intern | TISS, KENNETH | 0 | 0 | 0 | 1 | 0 | 0 | 3.0 | 100% | 0 | 0 | 0 | 0 | 0 | 3 |
| ERE | 79 | 27 | Resrch/Wood Prod Engr | TISS, KENNETH | 0 | 0 | 0 | 0 | 0 | 1 | 0.0 | | 0 | 3 | 0 | 0 | 0 | 0 |
| ERE | 79 | 33 | Resrch/Wood Prod Engr | TISS, KENNETH | 0 | 0 | 0 | 1 | 0 | 0 | 0.0 | | 0 | 3 | 0 | 0 | 0 | 0 |
| ERE | 79 | 34 | Resrch/Wood Prod Engr | TISS, KENNETH | 0 | 0 | 0 | 1 | 0 | 2 | 0.0 | | 0 | 9 | 0 | 0 | 0 | 0 |
| ERE | 89 | 34 | Prof Exp/Synthesis Eng | TISS, KENNETH | 0 | 0 | 0 | 1 | 0 | 1 | 0.0 | | 0 | 0 | 0 | 4 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | |
|---------------------------|----|----|---------------------------|-------------------|---|---|----|---|----|---|-----|-----|---|----|----|---|-----|----|
| ERE | 89 | 34 | Masters Thesis Research | TISS, KENNETH | 0 | 0 | 0 | 1 | 0 | 1 | 0.0 | | 0 | 2 | 0 | 0 | 0 | 0 |
| WP | 30 | 02 | Intern/Con Mgt & WPE | TISS, KENNETH | 0 | 0 | 3 | 0 | 2 | 0 | 0.0 | | 0 | 0 | 15 | 0 | 0 | 0 |
| WP | 33 | 01 | Construction Safety | TISS, KENNETH | 0 | 0 | 34 | 0 | 0 | 0 | 3.0 | 100 | 0 | 0 | 0 | 0 | 102 | 0 |
| WP | 34 | 01 | Construction Estimating | TISS, KENNETH | 0 | 0 | 0 | 0 | 29 | 0 | 3.0 | 100 | 0 | 0 | 0 | 0 | 87 | 0 |
| WP | 35 | 01 | Const Methods&Equipment | TISS, KENNETH | 0 | 0 | 3 | 1 | 0 | 0 | 3.0 | 100 | 0 | 0 | 0 | 0 | 9 | 3 |
| WP | 45 | 01 | Construct Plan/Scheduling | TISS, KENNETH | 0 | 0 | 31 | 0 | 0 | 0 | 3.0 | 100 | 0 | 0 | 0 | 0 | 93 | 0 |
| WP | 45 | 01 | Construction Project Mgt | TISS, KENNETH | 0 | 0 | 0 | 0 | 33 | 0 | 3.0 | 100 | 0 | 0 | 0 | 0 | 99 | 0 |
| WP | 49 | 01 | Research Or Design Prob | TISS, KENNETH | 0 | 0 | 0 | 0 | 4 | 0 | 0.0 | | 9 | 0 | 0 | 0 | 0 | 0 |
| Totals for TISS, KENNETH | | | | | | | | | | | | | 9 | 17 | 15 | 4 | 390 | 51 |
| WP | 41 | 01 | Cmptr-Aided Dsgn&Drafting | WEED, SHEILA | 0 | 0 | 0 | 0 | 19 | 0 | 3.0 | 100 | 0 | 0 | 0 | 0 | 57 | 0 |
| Totals for WEED, SHEILA | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 57 | 0 |
| WP | 40 | 01 | Timber Design Project | WOODS, LEONARD | 0 | 0 | 0 | 0 | 31 | 0 | 3.0 | 100 | 0 | 0 | 0 | 0 | 93 | 0 |
| Totals for WOODS, LEONARD | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 93 | 0 |

Research Courses include the following:
 Prob/Sem Courses include the following:
 Data as of 03/02/2010.

All courses ending in 498, 499, 798, 899, 999
 All courses ending in 420, 497, 797, 898, 997

Other Teaching Activities:

Crovella, P. L.

Fall 2009

- Delivered a unit of instruction concerning sustainable construction and renewable materials for WPE 132 Orientation Seminar: Construction Management and Wood Products Engineering
- Gave a presentation for the Northside Collaboratory “Green Train” program for green jobs training

Spring 2010

- Presented “Sustainable Energy Systems in the Built Environment” for Mike Kelleher’s Renewable Energy class.
- Guest critic for Terrence Goode’s SU Architecture class critiques.

Hussein, R.

- Offered seven weeks of weekly reviews for Statics, Dynamics, Mechanics of Materials, and structures to some of the students who took FE exam.
- Integrated FE components in all of my pertinent courses with over forty quizzes.
- Assisted some students in WPE 404, Timber Design Project. Participated in the ERFEG Senior Presentations.

Kyanka, G. H.

- Guest Lecturer - American Ladder Institute

Meyer, R.W.

- Lecture on wood characteristics for the Kiln Drying Workshop: Drying Quality Lumber for Profit, SUNY-ESF January, 2010

Smith, W.B.

Summer 2009

- *Construction Management and Wood Products Engineering*, presentation to Architectural Woodwork Institute Empire State Chapter, 7/29/09.

Fall 2009

- *Kiln Dried Hardwood Lumber*, invited presentation to Penn-York Lumbermen’s meeting (expenses paid), Brookville, PA, 9/14/09.
- *Wood Products Engineering*, WPE 132 guest lecture to first year students, 10/14/09.
- *Wood Products Engineering*, ESC 132 guest lecture to first year students, 10/28/09.

Spring 2010 –

- Kiln Drying Workshop: *Drying Quality Lumber for Profit*, January 11-14, 2010. sponsored by: SUNY ESF, the Faculty of Construction Management and Wood Products Engineering, the NY Center for Forest Products Research and Development, the ESF Wood Utilization Service, and the New England Kiln Drying Association. As workshop leader, I was responsible for the development and overall organization of this course. I arranged guest speakers, handled over half of the lecture and laboratory sessions myself, and obtained lumber to kiln dry. There were 14 students in the course, all from industry, and all of the instructors received very good and excellent reviews. ESF Continuing Education staff did an excellent job with brochures and mailings, registration, meals, parking, hotel, and campus coordination. This was the eighth consecutive year of successfully offering this workshop. Registrations

over those years have averaged about 25 people, ranging from 14 to 30. Specific presentations made by William Smith include:

The Importance of Kiln Drying
Psychrometrics and Wood-Water Relations
Wood Moisture Determination
Moisture Meters and their Effective Use
Controlling the Kiln Drying Process, Kiln Samples
Drying Schedule Theory
Preparing Wood for Drying
Kiln Operation: Stacking, Stickering, Baffling, Air Flow
Kiln Operation: Sample monitoring and schedule modification
Developing Kiln Schedules, Mixed Species, (with Bob Pope)
Effective Air Drying Practices and Procedures
Kiln Start-Up Procedures (w/ Bob Pope)
Dry Kiln Operation and Maintenance, Air velocity;
Dehumidification Kiln Drying
Kiln operation - Intermediate %MC tests, shell / core
Equalizing; Drying Stress Development, and Conditioning
The Kiln Operator=s Job (w/ Bob Pope)
Kiln Operation: Effect of Air Velocity on Drying
Prevention of Drying Defects: warp, checking, splitting, honeycomb
Effect of Season and Log Storage on Hard Maple Color
Prevention of stain and discoloration, Drying White Woods
Statistical Process Control - Kiln, Lumber and Moisture Sampling
Modifying Kiln Schedules
Lumber Storage and Handling, Redrying Wet Wood
Wood Resource Issues, What Will the Future Bring

- *Dry Kiln Operator's Workshop*" Leader, at the New England Kiln Drying Association 2010 Fall (11/4/09, Andover, MA) and 2010 Spring (4/7/10, Keene, NH) Meetings. Expenses paid.

Smith, J.L.

Summer 2009

- Prepared and presented an invited lecture on "Sustainability and Green Materials" for EFB 796 Outreach - Advanced Training Workshop on Alternative Energy on July 28, 2009

Fall 2009

- Prepared and presented a lecture titled "Research Perspective" for WPE 132 – Freshman Seminar on November 11, 2009

Spring 2010

- Prepared and presented a lecture titled "Geosynthetic Rolled Erosion Control Products" for CIE 584 – Designing with Geosynthetics on February 18, 2010

Tiss, K.J.

- Delivered a unit of instruction concerning construction management and what my role is in the department to the Fall 2009 Orientation seminar.

- Delivered a unit of instruction concerning the department portfolios in the Fall 2009 Orientation seminar.
- Delivered a guest lecture for Dr. Samuel Clemence and his CIE 475 Design capstone course. I deliver this lecture annually on the topics of activity on node scheduling and construction management, the delivery system.
- Attended the final presentations of the CIE 475 Design capstone course on behalf of the department.

Professional Development activities to support teaching and curriculum development

Crovella, Paul

- Completed BPI – Building Analyst training (one week)
- Attended TFEC Pre-conference symposium
- Attended CNY Engineering Expo
- Attended Faculty Colloquium
- Participated in two 4 hour BIM webinars in preparation for teaching BIM course
- Attended three CSI meetings (some with students)
- Attended Upstate Green Building Conference
- Attended National Grid/NYSERDA Energy Efficiency conference

Hussein, Rafaat

- Completed over 35 credits for professional development.
- Attended over 24 professional meetings.
- ESF Forum on the Future of Energy.
- Green Building Conference in part.

Kyanka, George

- LEED Workshop

Smith, Jennifer

Attended several seminars and lectures

- Mr. Doug Gaffney, Ocean and Coastal Consultants, Inc., “The Use of Geotextiles in Waterfront Applications,” 6/10/09
- Dr. Cliff Davidson, Professor of Dept. of Civil Engineering and Public Policy and Director for the Center for Sustainable Engineering, Carnegie Mellon University, “The Emergence of Sustainability in the Discipline of Engineering,” 7/8/09
- Mr. Anthony Berejka, Ionicorp, “Industrial Electron Beam Processing,” 9/11/09
- Dr. Wan Rosli, Penang, Malaysia, “Utilization of Oil Palm Biomass,” 10/16/09
- Mr. Matthew Klucznik, QPK, “The Rehabilitation of Baker Laboratory: Sustainable Aspects of Design and Construction,” 10/27/09
- Dr. Katrina Korfmacher, “Pursuing Environmental Social Justice through Local Lead Policy,” 3/11/10
- Dr. Steven Eichhorn, “Deformation Micromechanics of Cellulose Fibers and Composites Using Raman Spectroscopy,” 3/26/10

Participated in several on-line webinars:

- American Society of Civil Engineers (ASCE), “Making the Most of a D- Grade – How to Communicate the ASCE Report Card on Wastewater, Building Community Support for Infrastructure Upgrading,” 5/21/09
- The Associated General Contractors (AGC), “Supervisory Training Program Unit 6 – Understanding and Managing Project Costs - Revision Highlights,” 11/3/09

- Construction Specifications Institute (CSI), “Green Format Webinar for Designers and Specifiers,” 11/18/09
- AGC, “One Mistake from Collapse – The 5 Things Construction Executives Must Know to Survive in 2010,” 2/25/10

Participated in the following conferences/workshops/meetings:

- Construction Specifications Institute (CSI) Meeting, “Education for Architecture, Engineering, and Construction,” 2/22/10
- American Concrete Institute (ACI) Meeting, “What the Concrete and Masonry Industry Offers for Career Opportunities,” 2/24/10
- Attended the “Green Paving Demonstration,” at Lan-co Paving Inc., in Syracuse, NY, 5/12/10

Tiss, Kenneth

- Applied for and received a PDQWL professional development award to fund the OSHA safety course in June of 2010 to maintain my OSHA Outreach credential to teach Construction Safety.
- Completed a course at Syracuse University, IDE 756 Distance Education Management, in order to learn the required managerial concepts related to developing a distance education course.
- Attended a short course on Blackboard 9 which I will be using for my courses beginning this fall

Faculty Advising

| | No. Undergraduate Advisees | | No. Graduate Advisees and Committees | |
|-----------|----------------------------|--------|--------------------------------------|---------------------|
| | Fall | Spring | Major Professor | Steering Committee* |
| Anagnost | 20 | 15 | 1 | 2 |
| Crovella | 9 | 9 | 2 | 3 |
| Hanna | | | 1 | 4 |
| Hussein | 2 | 2 | | 1 |
| Kyanka | 13 | 20 | 2 | 1 |
| Meyer | 1 | 1 | 4 | 1 |
| Smith, J. | 9 | 6 | 1 | 7 |
| Smith, W. | 7 | 4 | 1 | 2 |
| Tiss | 23 | 25 | 6 | 2 |

*Not as Major Professor

b. Curriculum changes for the academic year 2007-2008

1. The Wood Products Engineering undergraduate degree will phase out over the next several years. We are no longer accepting students into the program.
2. A concentration in Wood Products Engineering was approved and will be offered for Construction Management students

3. The Construction Management curriculum went through substantial changes:
 - a. New required courses:
 - Plan Interpretation and Quantity Takeoff
 - Sustainable Construction
 - Environmental Performance Measures
 - Sustainable Energy Systems in Buildings
 - Engineering Materials for Sustainable Construction
 - Building Information Modeling for Construction Managers
 - b. Course changes:
 - Applied Structures (formerly Timber Design)
 - Renewable Materials for Sustainable Construction (Wood Structure and Properties)
 - c. Many course descriptions were updated to the new format as requested by COI
 - d. The Chair reviewed teaching workload with each faculty member, and decisions were made on which courses could be dropped from the catalog, as they are no longer taught. This list will be submitted to COI fall 2010.
4. A proposal was submitted for a graduate program in Sustainable Construction Management and Wood Science. The three engineering departments at ESF are submitting proposals for three separate graduate programs, and to eliminate the graduate program in Environmental and Resource Engineering. The proposal was approved by the Committee on Instruction and has been submitted for State Education approval. The proposal for the graduate program in Sustainable Construction Management and Wood Science will include three Options and several new areas of study. The three Options are Construction Management, Sustainable Construction and Wood Science.
5. The department and college WebPages, college catalog pages and promotional materials were updated to the new department name and curriculum changes. The revisions to the graduate program have been prepared and catalog changes will be published once approved.
6. The department is developing an undergraduate certificate program with the main objective to support economic development activities in the construction industry in Syracuse and Central New York. We have discussed potential audiences for this program with CNYWorks and the South Side Innovation Center.
7. Professional Science Masters Program development at ESF. Funds were received from the Sloan Foundation to develop PSM programs at ESF. A PSM committee led by Gary Scott from PBE is planning to develop and implement PSM programs at ESF. From CMWPE, Susan Anagnost and Ken Tiss are participants on the committee. Ken Tiss attended the SUNY-wide PSM meeting in March, 2010 at the Oswego Metro Center in downtown Syracuse. The PSM program in Construction Management was not approved.

c. Listing of awards and recognitions

George Kyanka

Anniversary Award – Pi-Tau-Sigma, Mechanical Engineering Society

Ken Tiss

- 2009 Recipient of the ESF College Foundation award for Teaching Excellence
- UUP Professional Development Award to attend the OSHA Safety Instructor's Training Course, June 2010.

2. Research

a. Summary of publications/presentations (numbers by faculty and type)

| Author | Journal articles (refereed) | Books | Book chapters | Journal articles (Non-refereed) | Presentations | Poster Presentations |
|---------------|-----------------------------|-------|---------------|---------------------------------|---------------|----------------------|
| Anagnost,S.E. | 1 | | | | | 1 |
| Kyanka, G.H. | 1 | | | 1 | | |
| Smith, J.L. | 4 | | | 1 | | |
| Smith, R.P. | 1 | | | | | |
| Smith, W.B. | 1 | | | | | 1 |

Citation Analyses (prepared by L. Galloway for SCME)

Citation Index Searching July 2010

13-Jul-10

| | | | #Citations 2009 | #Citations 2005-2009 | #Citations 2000-2009 | h- Index |
|---|---------------|------------|--------------------|-------------------------|-------------------------|-------------|
| 1 | Anagnost | Susan E | 12 | 90 | 151 | 4 |
| 2 | Crovella | Paul L. | 0 | 0 | 1 | na |
| 3 | Hanna | Robert B | 18 | 80 | 139 | 5 |
| 4 | Kyanka | George H | 2 | 6 | 11 | 1 |
| 5 | Meyer | Robert W | 2 | 20 | 29 | 3 |
| 6 | Morsi-Hussein | Rafaat | 3 | 5 | 14 | 1 |
| 7 | Smith | Jennifer L | 0 | 5 | 6 | 1 |
| 8 | Smith | William B | 6 | 25 | 36 | 4 |
| 9 | Tiss | Kenneth J. | 0 | 0 | 0 | na |

*The h index is based on the highest number of papers included that have had at least the same number of citations. The h index was developed by J.E. Hirsch. Hirsch defines the h index as follows:
"A scientist has index h if h of his/her Np papers have at least h citations each, and the other (Np h) papers have no more than h citations each."

Link to **SCME** works published in 2009:

<http://www.refworks.com/refshare/?site=036421139893200000/RWWS4A1328906/95,83,67,77,69,50,48,48,57&enc=y>

Publications (refereed)

Anagnost, S.E.

Rosenbaum P.F., Crawford J.A., **Anagnost S.E.**, Wang C.J.K., Hunt A., Anbar R.D., Hargrave T.M., Hall G.E., Liu C.C., and Abraham J.L. 2009. Indoor airborne fungi and wheeze in the first year of life among a cohort of infants at risk for asthma. *Journal of Exposure Science and Environmental Epidemiology* 1-13.

Kyanka, George K.

Kyanka, G. and J. Croteau. *Wooden Utility Pole-Automobile Impact Analysis*. SAE In Press.

Smith, Jennifer L.

Smith, J.L. and Bhatia, S.K. 2009. "Bioimprovement of Soils for Highway Applications Using Rolled Erosion Control Products," *Transportation Research Record: Journal of the Transportation Research Board of the National Academies*, Washington, D.C., pp. 117-126.

Khachan, M.M., **Smith, J.L.**, Grzelak, M.D., and Bhatia, S.K. 2009. "Evaluation of the Retention of Slurry Sediments Using Geotubes," 9th International Conference on Geosynthetics, Guaruja, Brazil, May 23-27, 2010, accepted for publication.

Bhatia, S.K., Venkatappa Rao, G., and **Smith, J.L.** 2010. "International Practices and Guidance: Natural-Fiber Rolled Erosion Control Products," 5th International Conference on Scour and Erosion (5ICSE), San Francisco, CA, November 7-10, 2010, submitted.

Smith, J.L., Bhatia, S.K., and Sprague, C.J. 2010. "Comparison of Geosynthetic Rolled Erosion Control Product (RECP) Properties between Laboratories," 5th International Conference on Scour and Erosion (5ICSE), San Francisco, CA, November 7-10, 2010, submitted.

Smith, Robert P.

Petrus, A.K., Petrus, D.G., **Smith, R.P.**, Fairchild, T.J. and Robert P. Doyle. 2009. Exploring the Implications of Vitamin B12 Conjugation to Insulin on Insulin Receptor Binding. *ChemMedChem* 2004 (4) 421-426.

William B. Smith

Smith, W.B. and D.P. Kamdem. *An In-Service Quality Assessment of Micronized Copper and Other Treated Wood Posts*, submitted to the *Forest Products Journal*.

Publications (non-refereed)

Kyanka, George

Kyanka, G.H. 2010. *Ladder Labeling*, ALI, Chicago.

Smith, Jennifer, L.

Smith, J.L. and Bhatia, S.K. 2010. "Minimizing Soil Erosion with Geosynthetic Rolled Erosion Control Products," *GeoStrata Magazine*, American Society of Civil Engineering (ASCE) Geo-Institute, accepted for publication.

Research Presentations/Posters

Anagnost, Susan E.

Crawford, J., Rosenbaum, P., **Anagnost, S.**, Hunt, A. and J. Abraham. 2009. Home conditions and indoor airborne fungal levels in a cohort of infants at risk for asthma. Proceedings and Poster presentation, Healthy Buildings 2009, Syracuse, New York, September 2009.

Crovella, Paul

Crovella, Paul. A Comparison of Techniques for Measuring Commercial Building Airtightness. 8 pages. – Submitted spring 2010; Accepted for presentation at IAQVEC 2010.

William B. Smith

Smith, W.B. and Kamdem, D.P. A Field Survey of Treated Wood, Poster presentation at the American Wood Protection Association Annual Meeting, May 23-26, 2010.

b. Summary of grant activity (provided by ORP)

Sponsored program New Award and Award Funding Changes for fiscal year 2009-2010 (data provided by ORP)

**Sponsored Program New Awards and Award Funding Changes
Fiscal Year 2010-11**

| Name | PI/ CoPI | Title | Sponsor Type | Sponsor Name | Award Start Date | Award End Date | Credited Share Percentage | Total Award Change Amount | Credited Award Change Amount | IC:DC Ratio | Award Number |
|----------------------|-------------|--|-----------------|--|------------------------|----------------------|---------------------------------|---------------------------------|---------------------------------------|----------------|-----------------|
| Anagnost, Dr. Susan | P | Unrestricted Research in Construction Management & Wood Products Engineering | Nonfederal | Multiple Sponsors | 7/1/03 | 3/31/09 | 100.00% | \$656.08 | \$656.08 | 11.49% | 29897 |
| Anagnost, Dr. Susan | C | Green Buildings and Practices: LEED Accredited Professional Core Principles | Nonfederal | Multiple Sponsors | 8/25/09 | 6/27/10 | 33.33% | \$9,435.96 | \$3,145.32 | 32.50% | 52130 |
| Hanna, Dr. Robert B | C | Empire State Paper Research Institute Budget 09/10 | Nonfederal | Empire State Paper Research Associates | 4/1/09 | 3/31/10 | 10.00% | \$30,976.69 | \$3,097.67 | 35.70% | 49967 |
| Hanna, Dr. Robert B | C | Empire State Paper Research Institute Budget 10/11 | Nonfederal | Empire State Paper Research Associates | 4/1/10 | 3/31/11 | 10.00% | \$125,000.00 | \$12,500.00 | 35.70% | 52286 |
| Hanna, Dr. Robert B | C | Pneumococcal Polysaccharide Capsule Examination Using Transmission Electron Microscopy | Nonfederal | Wyeth Pharmaceuticals | 8/13/09 | 2/13/10 | 33.33% | \$1,500.00 | \$500.00 | 21.95% | 53982 |
| Meyer, Dr. Robert W | C | 7th Annual Green Building Conference | Nonfederal | Multiple Sponsors | 7/1/08 | 8/19/09 | 33.33% | (\$26,697.47) | (\$8,899.16) | 0.00% | 48213 |
| Meyer, Dr. Robert W | C | 8th Annual Green Building Conference | Nonfederal | Multiple Sponsors | 8/19/09 | 8/19/10 | 25.00% | \$22,178.93 | \$5,544.73 | 54.37% | 52408 |
| Smith, Dr. William B | P | Unrestricted funds for Research on Drying and Other Related Topics | Nonfederal | Multiple Sponsors | 4/1/03 | 6/30/09 | 100.00% | (\$9,880.32) | (\$9,880.32) | 0.00% | 28239 |
| Smith, Dr. William B | C | Kiln Drying Workshop | Nonfederal | Multiple Sponsors | ##### | 7/28/10 | 25.00% | \$2,924.96 | \$731.24 | 55.36% | 52409 |

| | | | | | | | | | | | |
|-------------------|---|--|------------|-----------------------|---------|---------|--------|------------|------------|--------|-------|
| Smith, Mr. Robert | P | Pneumococcal Polysaccharide Capsule Examination Using Transmission Electron Microscopy | Nonfederal | Wyeth Pharmaceuticals | 8/13/09 | 2/13/10 | 66.67% | \$1,500.00 | \$1,000.00 | 21.95% | 53982 |
|-------------------|---|--|------------|-----------------------|---------|---------|--------|------------|------------|--------|-------|

Credited- Number: 4.37 -Amount: 8,396 220.6%

Sponsored Program Expenditure Activity for fiscal year 2009-2010(by ORP):

Expenditures-Sponsored Projects Fiscal Year 2009-2010

| Name | PI/ CoP I | Title / Type | Sponsor | Project Start Date | Project End Date | Credited Share Percentag e | Total Expenditur e Amount | Credited Expenditur e Amount | IC:DC Ratio | Project Number |
|---------------------|-----------------|---|---------------------|--------------------------|------------------------|-------------------------------------|---------------------------------|------------------------------------|----------------|-------------------|
| Anagnost, Dr. Susan | P | Membrane-based DNA Technique to Simultaneously Detect Opportunistic, Pathogenic and Wood-decay Fungi in Buildings | | | | 66.67% | (1,075.04) | (716.69) | 0.0% | 1063595 |
| | | Federal Flow Through | Syracuse University | 5/1/07 | 4/30/09 | | | | | |
| Anagnost, Dr. Susan | C | Predicting the Size of Discolored Hearts of Sugar Maple | | | | 20.00% | 600.20 | 120.04 | 0.0% | 1050213 |
| | | Federal | USDA Forest Service | 8/1/05 | 7/31/09 | | | | | |
| Anagnost, Dr. Susan | C | Sustainable Innovations in the Built Environment | | | | 20.00% | 12,839.97 | 2,567.99 | 0.0% | 1076397 |
| | | Nonfederal | Syracuse University | 7/1/08 | 6/30/10 | | | | | |
| Anagnost, Dr. Susan | C | Green Buildings and Practices: LEED Accredited Professional Core Principles | | | | 33.33% | 9,435.96 | 3,145.32 | 32.5% | 1083168 |

| | | | | | | | | | | |
|----------------------|---|--|-----------------------------|----------|---------|---------|-------------|-------------|---------|--------|
| | | Nonfederal | Multiple Sponsors | 8/25/09 | 6/27/10 | | | | | |
| Kim, Dr. Yong-woo | P | Performance Measurement for Lean Project Management - Il-Yang Construction Korea | | | | 100.00% | (27,521.84) | (27,521.84) | 0.0% | 104794 |
| | | Foreign | Il-Yang Construction Co Ltd | 6/1/05 | 5/31/08 | | | | | |
| Meyer, Dr. Robert W | C | 7th Annual Green Building Conference | | | | 33.33% | 6,107.54 | 2,035.85 | 2953.8% | 107481 |
| | | Nonfederal | Multiple Sponsors | 7/1/08 | 8/19/09 | | | | | |
| Meyer, Dr. Robert W | C | 8th Annual Green Building Conference | | | | 25.00% | 22,178.93 | 5,544.73 | 54.4% | 108375 |
| | | Nonfederal | Multiple Sponsors | 8/19/09 | 8/19/10 | | | | | |
| Smith, Dr. William B | P | Unrestricted Grant for Research on Drying and Other Related Topics | | | | 100.00% | 2,894.91 | 2,894.91 | 62.7% | 103127 |
| | | Nonfederal | Multiple Sponsors | 4/1/03 | 6/30/11 | | | | | |
| Smith, Dr. William B | C | Predicting the Size of Discolored Hearts of Sugar Maple | | | | 20.00% | 600.20 | 120.04 | 0.0% | 105021 |
| | | Federal | USDA Forest Service | 8/1/05 | 7/31/09 | | | | | |
| Smith, Dr. William B | C | Kiln Drying Workshop | | | | 25.00% | 2,924.96 | 731.24 | 55.4% | 108375 |
| | | Nonfederal | Multiple Sponsors | 10/28/09 | 7/28/10 | | | | | |

SCME department Credited Number

4.43 -Amount: -11,078 -35.4%

Proposal Submission Activity Fiscal Year 2009-2010 (data from ORP)

| Name | PI/ CoPI | Title | Sponsor Name | Requested Start Date | Requested End Date | Credited Share Percentage | Total Request | Credited Amount | Awarded(A) Pending (P) Rejected (R) |
|--|-------------|--|--|-------------------------|-----------------------|---------------------------------|----------------|--------------------|--|
| Construction Management and Wood Products Engineering (Sustainable Construction Management and Engineering) | | | | | | | | | |
| Anagnost, Susan E. | P | Selected Indoor Environmental Quality Evaluation for Syracuse Healthy Homes Demonstration Project | City of Syracuse | 2/1/2010 | 1/31/2013 | 66.67% | \$84,000.00 | \$56,000.00 | R |
| Anagnost, Susan E. | C | Science Master's Program: Creating a Well-Trained Workforce for Sustainable Engineering Management | National Science Foundation | 9/1/2010 | 8/31/2013 | 16.67% | \$699,706.00 | \$116,617.67 | R |
| Anagnost, Susan E. | C | Biomass Blueprints: Constructing Photocatalysts from Cellulosic Templates (\$7,577) | SUNY College of Environmental Science and Forestry | 3/1/2010 | 6/30/2011 | 33.33% | \$7,577.00 | \$2,525.67 | A |
| Crovella, Paul | C | Selected Indoor Environmental Quality Evaluation for Syracuse Healthy Homes Demonstration Project | City of Syracuse | 2/1/2010 | 1/31/2013 | 33.33% | \$84,000.00 | \$28,000.00 | R |
| Hanna, Robert B. | C | Pneumococcal Polysaccharide Capsule Examination Using Transmission Electron Microscopy | Wyeth Pharmaceuticals | 8/13/2009 | 2/13/2010 | 33.33% | \$1,500.00 | \$500.00 | A |
| Hussein, Rafaat M. | P | A Novel Hybrid Educational Program for Environmental Protection | US Environmental Protection Agency | 6/1/2010 | 7/31/2011 | 66.67% | \$4,496.00 | \$2,997.33 | R |
| Meyer, Robert W. | P | Electron Beam and X-ray Cured Carbon Skeleton Composites | New York State Energy Research and Development Authority | 9/1/2010 | 8/31/2011 | 66.67% | \$74,818.00 | \$49,878.67 | P |
| Smith, Jennifer L. | P | Design Intelligence Biofibers and Smart Building Systems | Syracuse University | 7/1/2010 | 6/30/2014 | 66.67% | \$316,541.00 | \$211,027.33 | R |
| Smith, Jennifer L. | P | Radiation Cured Natural Fiber Reinforced Composites | New York State Energy Research and Development Authority | 9/1/2010 | 2/29/2012 | 66.67% | \$75,000.00 | \$50,000.00 | P |
| Smith, Jennifer L. | C | Collaborative Research: Geotextile Tubes for the Sustainable Dewatering of Dredged Sediments | National Science Foundation | 5/16/2010 | 5/15/2013 | 33.33% | \$181,295.00 | \$60,431.67 | R |
| Smith, Jennifer L. | C | Valorization of Lignin, Lignin Degradation Products, and Extractives within a Biorefinery Based on Hot Water Extraction of Northeastern Hardwood Biomass | USDA - National Institute of Food and Agriculture | 1/1/2011 | 12/31/2015 | 25.00% | \$1,000,000.00 | \$250,000.00 | P |

| | | | | | | | | | |
|--------------------|---|---|--|-----------|-----------|--------|--------------|--------------|---|
| Smith, Jennifer L. | C | UV / EB Technology Center | New York State Energy Research and Development Authority | 9/1/2010 | 8/31/2011 | 33.33% | \$472,487.00 | \$157,495.67 | P |
| Smith, Robert P. | P | Pneumococcal Polysaccharide Capsule Examination Using Transmission Electron Microscopy | Wyeth Pharmaceuticals | 8/13/2009 | 2/13/2010 | 66.67% | \$1,500.00 | \$1,000.00 | A |
| Tiss, Kenneth J. | C | Urban Renewal Through Energy Capture: Turning Solid Waste into a Resource Using Distributed Agriculture Ecological Systems (DAES) | New York State Energy Research and Development Authority | 1/15/2011 | 6/14/2011 | 20.00% | \$226,927.00 | \$45,385.40 | R |
| Tiss, Kenneth J. | C | Science Master's Program: Creating a Well-Trained Workforce for Sustainable Engineering Management | National Science Foundation | 9/1/2010 | 8/31/2013 | 16.67% | \$699,706.00 | \$116,617.67 | R |
| | | | | | | | | | |

Credited-

-Number:

6.45

-Amount:

\$1,148,477

Active Sponsored Research Projects

For the period June 2009-May 2010 (information provided in faculty annual reports):

Anagnost , S.

Abrams, Neal and **S.E. Anagnost**. Biomass Blueprints: Constructing Photocatalysts from Cellulosic Templates, Seed Grant, SUNY College of Environmental Science and Forestry, 3/1/2010 to 6/30/2011. \$7,577.00

Crovella, Paul

Carr, Don and **P. Crovella**. Sustainable Modular Building System. Sustainable Enterprise Partnership, \$5000, May 2010-November 2010.

Crovella, P. Gateway Video Project. Syracuse Center of Excellence, \$2000, ongoing.

Kyanka, G.

Contract projects:
Haley-Aldrich, Cambridge, MA
York Scaffolding, New York, NY
J. Stopen, Syracuse, NY

Smith, J.

Smith, J.L., and Driscoll, M., "Radiation-Cured Natural Fiber Reinforced Composites," New York State Energy Research and Development Authority (NYSERDA), Ultraviolet Light and Electron Beam Process Innovation and Market Transformation, PON 1641, \$75,000.

Smith, W.

Germain, R. and **W.B. Smith**. The New York Forest Community Economic Assistance Program – "Circuit Rider" proposal, \$100,000 Appropriations for SUNY ESF from Congressman McHugh and others through Dr. M.O. Fellows and Dr. C.B. Murphy; Dr. W.B. Smith provided support letters from industry, background information and program details. The funding obtained was reduced from the originally requested \$500,000. The project is from September 1, 2010 to August 31, 2011. The project is being administered and carried out and by Dr. W.B. Smith and Dr. Rene Germain (FNRM) as co-Principle Investigators.

Smith, W.B. Janka Ball Hardness Testing of Several Wood Flooring Products, WPEL-WBS-0905-A, \$4,200.

Smith, W.B. Bending Strength and Hardness Testing of Red Maple, Hard Maple and White Birch Plywood Specimens, , Wood Products Engineering Laboratory research project # WPEL-WBS-10-02A, for Rutland Plywood, \$4,800, 3/1/10 – 4/30/10, Andrew Z. Hamilton, Student Assistant (hourly).

Smith, W.B. Kiln Drying Workshop: *Drying Quality Lumber for Profit*, January 11-14, 2010. \$6,030. 14 industrial participants.

Smith, W.B. Establishment of a preliminary test-plot study (AWPA E-7) at the ESF field station near Coyolito, Costa Rica. Approximately \$2,000 in travel and support funding. Osmose Inc.

Tiss, K.J.

Tiss, K. Grant for GPS and video equipment. Association of General Contractors of NYS. \$1000.

Grant submissions for the period June 2009-May 2010

(information provided in faculty annual reports, other than those reported by ORP):

Anagnost , S.

Abrams, Neal and S.E. Anagnost. Biomass Blueprints: Constructing Photocatalysts from Cellulosic Templates, Seed Grant, SUNY College of Environmental Science and Forestry, 3/1/2010 to 6/30/2011. \$7,577.00

Crovella, Paul

Seed Grant Proposal, not funded
Submitted a Letter of Intent to the National Association of Home Builders for their HELP Proposal, not accepted.

Hussein, Rafaat

Hussein, Rafaat, Seed Grant: Computational Models For Eco-Biocomposites Components In The Designed Environments. SUNY ESF Seed Grant program. Not funded.

Crovella, P., Bujanovic, B., and R. Hussein. Experimental Investigation Of Biodegradable Adhesives On The Performance Of Laminated Biocomposites Preproposal to McIntire Stennis Program, SUNY-ESF. Not funded.

Hussein, R. Sustainable Environment A Novel Hybrid Educational Program For Environmental Protection, Environmental Protection Agency. Not funded.

Smith, Jennifer

Bhatia, S.K., Bader, R.A., Ramarao, B.V., and Smith, J.L., "Collaborative Research: Geotextile Tubes for the Sustainable Dewatering of Dredged Sediments," National Science Foundation (NSF), Geotechnical Engineering, Resilient and Sustainable Infrastructures (PD09-1636), 10/1/09, \$181,295, not funded.

Aboutaha, R., Bhatia, S.K., Bomberg, M., Brown, T.L., and Smith, J.L., "Design Intelligence: Biofibers and Smart Building Systems," Syracuse University, NSF Emerging Frontiers in Research and Innovation 2010 (EFRI-2010), 11/13/09, \$316,541, not funded.

Smith, J.L., Hassett, J.P., and Abrahamson, L.P., "Forest-Based RECPs for the Sustainable Management of Forests," 2011-12 McIntire-Stennis Research Program, 11/16/09, \$52,518, not funded.

Smith, J.L., and Driscoll, M., "Radiation-Cured Natural Fiber Reinforced Composites," New York State Energy Research and Development Authority (NYSERDA), Ultraviolet Light and Electron Beam Process Innovation and Market Transformation, PON 1641, 3/10/10, \$75,000, funded.

Tiss, Ken

Participated in two separate NYSERDA submissions with David Johnson, Stewart Diemont, Emanuel Carter, and Terry Ettinger. These involve the combining of urban agriculture, ecological treatment systems and biodegradation of various waste products. My role is concerning the construction of the combined units.

Participated in the SUNY ESF Professional Science Masters program submission development through the Sloan Foundation.

Participated in the development of the SUNY ESF submission of the Professional Science Masters

program to the National Science Foundation.

Developed a grant application to AGC of NYS for GPS and video equipment. Awarded \$1000.

Participated in NSF submission with David Johnson, et. al. regarding the concepts previously described in the NYSERDA submission

c. Listing of research awards and recognitions

3. Outreach and Service

a. Enumeration of Outreach Activities

Susan Anagnost

- Planned and organized the CMWPE Speaker Series in Sustainable Construction and Renewable Materials
- President-Elect, Society of Wood Science and Technology (SWST) July 2009-June 2010; attended or participated by conference call in board meetings, March, 2010 (Albuquerque, NM) and July 2010
- Attended the United Nations Economic Commission for Europe Timber Committee Meeting October 12-15, 2009. Met with the head of the UNECE Timber Committee to plan a joint meeting of the UNECE-TC and the Society of Wood Science and Technology to be held October 11-15, 2010.
- CORRIM Board of Directors.
- Attended the SUNY Leadership Program Workshop, June 2010, Albany, NY.

Paul Crovella

- Construction Career Day at the NYS State Fairgrounds, October 2009; met students at the CMWPE booth
- Provided 25 hours of LEED GA Training for 30 members of the Minority Contractors Association and unemployed CNYI residents through Enitiative grant for Syracuse CoE and CNY Works.
- Filmed three interviews for Gateway Video Project.
- Met with South Side Innovation Center staff to plan construction management training.
- Served at department booth at Healthy Buildings 2009 conference.
- Served at department booth at Construction Career Day
- Filmed 4 “Going Green” segments for Office of Communications
- Panel member for “Central Issues” television program on green building at WCNY

Robert Hanna

- As Director of the N. C. Brown Center for Ultrastructure Studies, provided research support to Syracuse University, Upstate Medical University and Le Moyne College

Rafaat Hussein

- Participated in: AISC seminar and a regional conference
- Member of an ad hoc committee of an international engineering code
- Member of the construction institute
- Prepared a poster for ESF's showcase in Albany before NYS Legislatures

William Kelleher

- Balsa Bridge Competition for High School Students. Sponsored by our Student Construction Association, this activity relies heavily on William Kelleher in setting up and running the tests on the Balsa Bridges. The 21st Annual Balsa Bridge Competition involved teams from 10 area high schools and middle schools.
- Presentation and demonstration on structure, properties and applications of balsa wood for students at St. Paul's School in Norwich NY who were preparing for the international Odyssey of the Mind competition
- ESF Open House Wood Engineering Testing Lab demonstrations for prospective students

George Kyanka

- Responded to phone inquiries from individuals or industry

Robert Meyer

- Guided planning for Eighth Green Building Conference held March 2010. 278 attendees, 42 vendors; Planning is underway for the Ninth Annual, 2011 Conference
- Identified wood species for various clients; answered numerous inquiries regarding properties and uses of wood.
- As Director of the Tropical Timber Information Center, responded to inquiries and requests for information; tropical wood identification
- Lecture at Kiln Drying Workshop, January 2010

Jennifer L. Smith

- Construction Career Day at the NYS State Fair grounds, October 2009; met students at the CMWPE booth
- Women in Science & Engineering (WISE) mentor, Syracuse University
- 18th-Annual SUNY ESF – Take-Your-Kids to Work Day. Developed and presented a hands-on learning experience for kids about landfills to two groups of middle-school-aged kids, 4/29/10
- Participated in several meetings in attempts to establish an ESF-certification program with the Southside Innovation Center (SSIC)

Robert P. Smith

- Provided tours of the microscopy facilities in the Center for Ultrastructure Studies

William B. Smith

- As **Director of the SUNY ESF Wood Utilization Service**, and a member of the Faculty of Construction Management & Wood Products Engineering, I regularly provide extensive service to the public and the wood manufacturing, processing and using industries. This typically involves answering numerous telephone and mail enquiries, and travel to make personal plant visits (over 150 to 250 annually) for individuals and corporations relating to wood technology, processing, seasoning, deterioration, preservation, and coatings problems. Particular service includes providing wood drying, protection, and deterioration advice to many wood processing firms throughout New York, the Northeast, and Nationally, including, but not limited to, the Stickley Co., Harden Furniture, Ethan Allen, Boston Cedar, RB Woodcraft, Mystic Seaport, Orange and Rockland Utilities, Baillie Lumber, Rawlings/Adirondack Bat, Gunlocke, Atlantic Wood Industries, Arch Wood Protection, Jay-K Lumber, Gutches Lumber, ISK Biosciences, Potter Lumber, Osmose Wood Preserving, Wightman Lumber, Norton-Smith Hardwoods, Industrial Timber and Lumber Co., Beachwood, OH, Rex Lumber; Elder Wood Preserving, Mansura, LA, MDB Industries, Weyerhaeuser, Novus Energy, Montpelier, VT, Catskill Craftsman, Rossi North American Hardwoods, Cersosimo Lumber, Morse Lumber Co., Fitzpatrick and Weller, Viance, R.A. Miller Hardwoods, T.R. Miller, Brewton, AL, Fitts Industries, Tuscaloosa, AL.
- Executive Secretary of the New England Kiln Drying Association (NEKDA). Responsible for the planning and organization of spring and fall meetings, writing and publication of newsletters and annual membership directory, membership mailings, maintaining website, and general correspondence and organizational management. As the NEKDA has over 300 members in the Northeast, my activities as executive secretary provide excellent visibility for the College.
- American Wood-Protection Association, AWPAC Committee S-2 representative to serve as liaison on a joint study by Mississippi State University and the US Forest Service to develop the wood protection

section of a nationwide core curriculum on forest products.

- American Wood Protection Association Technical Committee(s); active member contributing to development and maintenance of standards through meetings and correspondence.
- Regularly interact with and participate in meetings of the Empire State Forest Products Association.
- Industrial and commercial: Osmose, Gutches Lumber, National Grid, Hartwick College, Universal Forest Products, Marcal Paper, NSTAR, Qwest, REMC Indiana.

Kenneth J. Tiss

- I am maintaining my Certified Professional Constructor certification.
- I am a founding board member of the Central New York Construction Career Days and was very active in putting together this event and representing the college. The 3rd Annual Construction Career Day was held in October 2009.
- Administered two Certified Constructor Examinations, one in the fall and one in the spring.
- I have coordinated the selection of Project Managers for the SU/ESF Habitat for Humanity project for the upcoming academic year. This has been coordinated with the student leadership, our department and Doug Morrison, the ESF faculty representative to the student chapter. Agreement was signed by me continuing our relationship relative to SU and Habitat.
- Responded to an inquiry about NYS contractors licensing
- Responded to an inquiry for an alum concerning the CPC process
- Conducted OSHA 10 Hour outreach course for the Lafayette High School Youth Construction Initiative Program.
- Conducted an OSHA 10 Hour construction outreach course for Dixie Sweeping, Inc.
- Participated in the State of our Planet discussion sponsored by the ESF student green club.
- Board of Directors for the Central New York Chapter of the American Institute of Concrete
- ASC Region 1 member and a department representative in the Associated Schools of Construction.

b. Summary of Grant Panel Service (by agency)

c. Summary of Editorial Board Service (by journal)

Susan E. Anagnost

Associate Editor, International Association of Wood Anatomists Journal
Reviewer for IAWA, 1 manuscript
Reviewer for Madera y Bosques, 1 manuscript

Paul Crovella

Reviewer for Automation in Construction Journal, 1 article

Rafaaf Hussein

Reviewer

George H. Kyanka

Reviewer for Wood & Fiber Science
Reviewer for Forest Products Journal

Jennifer Smith

Reviewer for Wood and Fiber Science
Reviewed four papers as a member of 5th International Conference on Scour and Erosion (5ICSE)
Paper Review Committee.

William B. Smith

Reviewed, one to three each, paper, publications, research manuscripts and proposals for:

- Forest Products Journal
- Wood & Fiber Science
- American Wood Protection Association
- International Association of Wood Anatomists Journal
- Journal of Wood Science
- Wood Science and Technology
- Journal for Testing and Evaluation
- USDA Small Business Innovation Research Program
- Holzforschung
- Drying Technology
- Natural Sciences and Engineering Research Council of Canada

Kenneth J. Tiss

Reviewer for Associated Schools of Construction Conference Proceedings for the 46th International Conference; reviewed three submissions for this conference

International Journal of Construction Education and Research; reviewed two publications

d. Enumeration of Other Significant Service Activities

[see section 3a.]

e. Memberships in Professional Organizations**Susan Anagnost**

- Society of Wood Science and Technology (SWST), President-Elect
- International Association of Wood Anatomists (IAWA), Associate Editor
- CORRIM, Board of Directors
- International Research Group on Wood Protection (IRG)
- Forest Products Society (FPS)

Paul Crovella

- Timber Frame Engineer's Council
- Member ASCE Wood Committee
- Forest Products Society
- Timber Framers Guild
- Society of Building Science Educators

Robert W. Meyer

- Society of Wood Science and Technology (SWST)
- Forest Products Society
- International Association of Wood Anatomists
- Upstate Chapter of USGBC

Robert B. Hanna

- Fellow, International Academy of Wood Science
- Society of Wood Science and Technology (SWST)

George Kyanka

- American Society of Mechanical Engineers
- American Society of Civil Engineers
- Society of Automotive Engineers
- Society of Wood Science and Technology (SWST)
- Forest Products Society
- ASTM- 3 committees
- ANSI- 3 committees

Jennifer L. Smith

- American Society of Civil Engineers (ASCE)
- ASCE Geo-Institute Technical Committee on Geotechnics of Soil Erosion
- North American Geosynthetics Society (NAGS)
- International Geosynthetics Society (IGS)
- American Society for Testing and Materials (ASTM)
- International Erosion Control Association (IECA)

William B. Smith

- New England Kiln Drying Association; member and Executive Secretary; participated in the 2009 Fall, November 4-5, Tewksbury, MA and 2010 Spring, April 7-8, Keene, NH, meetings.
- Empire State Forest Products Association; participated in Annual Meeting, 9/17-18/09
- Penn-York Lumbermen's Club; participated in 9/14/09, Brookville, PA and 2/22/10, Ellicottville, NY meetings
- Society of Wood Science and Technology; member of the accreditation committee
- Forest Products Society
- American Wood Protection Association; participated in 2010 Annual and Technical Committee Meetings, May 23-26, Savannah, GA
- Lake Erie and Ontario Sawyers and Filers Association
- National Hardwood Lumber Association, Research Member
- International Research Group on Wood Protection

Kenneth J. Tiss

- Central New York Chapter of the American Concrete Institute – Board of Directors
- Founding board member of the Central New York Construction Career Days
- Syracuse Builders Exchange.
- American Institute of Constructors.
- Associated General Contractors of New York State (formally the General Building Contractors of New York State) -- Associate member
- New York State Engineering Technology Association
- American Society for Engineering Education
- American Institute of Concrete National.
- Associated Schools of Construction -- Region 1 member and the department representative

f. Listing of awards and recognitions

Paul Crovella

Paul Crovella was accredited as a LEED professional January 2009

Kenneth J. Tiss

Ken Tiss was recognized by Partners for Education & Business, Inc., for contributions to the planning and implementation of Construction Career Day

4. Service-Learning

a. Courses with service learning component

WPE 487 Senior Seminar

WPE 331 Construction Safety

b. Brief description of the service activity completed in each course

WPE 487 Senior Seminar

Students prepared a review of the status of LEED accreditation of Baker Lab for the College. They learned how to evaluate a building or LEED credits, and provided this information to ESF. They also wrote a purchasing policy related to LEED accreditation which ESF adopted .

WPE 331 Construction Safety

Although there was no service learning component this year, this class provides safety instruction to volunteers for Habitat for Humanity SU/ESF student chapter in years when they have an active construction project. They will likely have a service learning component in 2010-11.

c. Estimated instructor input (hours per week/ semester) for each course

WPE 487 Senior Seminar:

Instructor input was about 5 hours per week for six weeks during the semester..

5. Graduate Students

a. Number of students by degree objective (provided by OIGS)

| Student Name | Degree Program | Major Professor | Expected Graduation Date |
|------------------------------------|----------------|-----------------|--------------------------|
| Arthur, Bradford | MPS | TISS | Dec 2010 |
| Ayers, Gary | MPS | TISS | May 2013 |
| Emmons, Shawn P. | MPS | TISS | May 2011 |
| Freund, Michael D. | MPS | MEYER | Dec 2010 |
| Gush, Nicholas C. | MPS | TISS | May 2010 |
| Brown, James | MS | CROVELLA | May 2011 |
| Deuell, Alexander | MS | CROVELLA | Dec 2011 |
| Guiles, Jason P. | MS | SMITH, W. | Dec 2010 |
| Paolini, Christopher R. | MS | TISS | Dec 2010 |
| Rann, Michael | MS | TISS | May 2011 |
| Stack, Kevin P. | MS | MEYER | May 2011 |
| Staniec, Lauren J. | MS | TISS | Dec 2009 |
| Viskupic, Eric | MS | MEYER | Dec 2010 |
| Crovella, Paul L | PHD | KYANKA | Dec 2011 |
| Gates, Scott Lewis | PHD | MEYER / TISS | Dec 2010 |
| Kim, Hwa Sung | PHD | ANAGNOST | May 2011 |
| Randrianarisoa, Bernard | PHD | MEYER | Dec 2010 |
| Tiss, Kenneth J | PHD | KYANKA | Dec 2010 |
| 2009-2010 degree recipients | | | |
| Staniec, Lauren J. | MS | TISS | Dec 2009 |
| Gush, Nicholas C. | MPS | TISS | May 2010 |

Graduate student practicum projects, theses and dissertations:

Staniec, Lauren. *Demolition for Global Climate Change: The Empire State Building as a Case Study*. Master's Thesis Defense, December 2009. (Ken Tiss, Major Professor)

Gush, Nicholas C. *A Critical Examination of Construction Management Practices at a Retail Building Site in Syracuse, New York*. Practicum for the Master of Professional Studies. May 2010. (Major Professor Ken Tiss)

Graduate Applications for Fall 2010:

| | |
|-----------------------------------|----------|
| Number of Applicants | 14 |
| No. rejected | 5 |
| In process/ withdrew / incomplete | 2 |
| No. accepted/withdrew | 3 |
| No. accepted/enrolled | 4 |

| <u>New graduate students Fall 2009</u> | | <u>New graduate students Fall 2010</u> | |
|--|---------------|--|---------------------|
| Michael Rann | MS (Tiss) | Farah, Alam | MS (Jennifer Smith) |
| Bradford Arthur | MPS (Tiss) | Yunyun Bi | PhD (Robert Meyer) |
| James Brown | MS (Crovella) | Joel Wheeler | MS (Ken Tiss) |
| | | Sean Woods | MS (Ken Tiss) |

b. Funding of graduate students (number by funding source by degree objective)

| <u>Student Name</u> | <u>Degree Program</u> | <u>Major Professor</u> | <u>Funding Source</u> |
|-------------------------|-----------------------|------------------------|--------------------------------------|
| Kim, Hwa Sung | PHD | ANAGNOST | Graduate Assistantship (full) |
| Randrianarisoa, Bernard | PHD | MEYER | Graduate Assistantship (F1/2; S 1/2) |
| Guiles, Jason | MS | SMITH, W. | Declined support |
| Brown, James | MS | CROVELLA | Graduate Assistantship (full) |
| Rann, Michael | MS | TISS | Graduate Assistantship (full) |
| Crovella, Paul L | PHD | KYANKA | no support |
| Tiss, Kenneth J | PHD | KYANKA | no support |
| Gates, Scott Lewis | PHD | MEYER | no support |
| Arthur, Bradford | MPS | TISS | no support |
| Ayers, Gary | MPS | TISS | no support |
| Emmons, Shawn | MPS | TISS | no support |
| Freund, Michael | MPS | MEYER | no support |
| Gush, Nicholas | MPS | TISS | no support |
| Deuell, Alexander | MS | CROVELLA | no support |
| Paolini, Christopher | MS | TISS | no support |
| Stack, Kevin | MS | MEYER | no support |
| Viskupic, Eric | MS | MEYER | no support |
| Staniec, Lauren J. | MS | TISS | no support |

c. Courses having TA support (list courses with enrollment)

| <u>Courses with GA support</u> | <u>Instructor</u> | <u>Graduate Assistant</u> | <u>Enrollment</u> |
|---|-------------------|-------------------------------|-------------------|
| Fall semester 2009 | | | |
| WPE 453 Construction Planning/Scheduling | Tiss | Michael Rann (50%) | 31 |
| WPE 335 Cost Engineering | Smith, J. | Michael Rann (50%) | 37 |
| ERE 596 Microtechnique | Anagnost | Hwa-Sung Kim (50%) | 1 |
| ERE 785 Scanning Electron Microscopy | Hanna | Hwa-Sung Kim (50%) | 5 |
| WPE342 Light Constr./ERE496 Energy Systems | Crovella | Brown, James (60%) | 35/14 |
| ERE 221 Statics | Kyanka | Brown, James (30%) | 26 |
| WPE 322 Mechanical Processing | Smith, W. | Brown, James (10%) | 5 |
| WPE 330 Building Codes | Kenyon | Randrianarisoa, Bernard (25%) | 14 |
| Calculus tutoring | | Randrianarisoa, Bernard (25%) | |
| Spring semester 2010 | | | |
| ERE 362 Mechanics of Materials* | Hussein | Randrianarisoa, Bernard (25%) | 56 |
| WPE 390 Fiber Identification Lab | Meyer | Randrianarisoa, Bernard (25%) | 4 |
| ERE 585 Light Microscopy & Photomicrography | Hanna | Hwa-Sung Kim (25%) | 7 |
| ERE 685 Transmission Electron Microscopy | Hanna | Hwa-Sung Kim (25%) | 5 |
| WPE 376 Decay of Wood Products /ERE760 | Anagnost | Hwa-Sung Kim (50%) | 4/1 |
| WPE343 Constr. Estimating / WPE 454 Proj M | Tiss | Michael Rann (50%) | 29/33 |
| ER 496 Sustain. Constr. /WPE455 Contracts & Specs | Smith, J. | Michael Rann (50%) | 12/35 |
| WPE 422 Composite Materials | Kyanka/Smith W | James Brown (50%) | 23 |
| WPE 332 Mech/Elec Equip | Crovella | James Brown (25%) | 9 |
| ERE496 BIM / ERE596 Green Bldg Rating | Crovella | James Brown (25%) | 7/6 |

*Additional GA support from ERFEG

6. Governance Structure

a. List components and assigned tasks/responsibilities

Department Chair: Susan Anagnost

Acting Department Chair: George Kyanka Nov 2009-May 2010

Construction Management Curriculum Coordinator:

Kenneth J. Tiss through November 2009

George Kyanka, Dec. 2009-May 2010

Paul Crovella, June 2010 -

The curriculum coordinators are responsible for reviewing curriculum and proposing changes to the CMWPE faculty, verifying student status (with the faculty chair), developing and updating advising handbooks for both faculty and students. The curriculum coordinators work with the chair on undergraduate recruitment. Curriculum Coordinators work with Admissions to review new applications, transfer credits and articulation agreements. The curriculum coordinator assists the chair with assessment. Other duties include meeting with visiting students and representing the department at campus Open Houses (along with other department faculty).

Graduate Curriculum Coordinator:

Susan E. Anagnost, May 2009-May 2010

William B. Smith, June 2010-

Duties of the Graduate Program Coordinator in CMWPE:

1. Serve on the Graduate Council led by the Dean of Instruction and Graduate Studies
2. Serve as a member of the Division of Engineering curriculum committee. The ERE curriculum committee consists of the three department chairs, and the three graduate coordinators for SCME, PBE and ERE.
3. Monitors the progress of applications and submits decisions to the SCMWS graduate program so that they are completed in a timely manner and under the deadlines prescribed by the graduate office.
4. Bring graduate applications to department meetings for approval; submit decisions on graduate applications to the graduate office
5. Respond to inquiries regarding admission to the graduate program
6. Prepare with the department chair, target enrollments for each semester, at the request of the Dean of Instruction and the Provost.
7. Coordinate the graduate seminar course, CME 797 Seminar; prepare a syllabus, coordinate speakers
8. Prepare in consultation with the department chair and faculty, a Graduate Recruitment. A committee may be formed to prepare and implement the plan.
9. Work with the SCME faculty, (committee), and department chair to implement the graduate recruitment plan.
10. Monitor the progress of current graduate students and work with their major professors to see that all graduation requirements are met (Associate Dean provides much of this service).

Accreditation:

The Wood Products Engineering Program is accredited by the **Society of Wood Science and Technology, 2000-2013**. The SWST Accreditation Committee was notified of the changes to the Wood Products Engineering Program and approved continuation of our accreditation status as long as the program is offered for our current WPE students, although the College is no longer accepting new students into the program. Our goal is to seek approval of the WPE concentration in Construction Management program to renew our accreditation in 2013.

The Construction Management Program is investigating accreditation by **the American Council of Construction Education**.

The Wood Products Engineering Laboratory (WPEL) is accredited by **the International Accreditation Service**. William B. Smith, with assistance from William Kelleher, developed manuals, procedures and submitted a proposal to the International Accreditation Service in order to achieve accreditation status. Accreditation was granted February, 2008. Following a review in April, 2009 accreditation was extended for two years.

Institutes and Centers in CMWPE

N.C. Brown Center for Ultrastructure Studies,
Director Dr. Robert B. Hanna
Assistant Director, Dr. Susan E. Anagnost
Instructional Support Specialist, Robert P. Smith
Renewable Resources Institute
Director Dr. George H. Kyanka
Tropical Timber Information Center
Director Dr. Robert W. Meyer
Wood Utilization Service
Director Dr. William B. Smith

CMWPE Advisory Board

| | |
|----------------|-------------------------------|
| Ronald Kenyon | Syracuse City School District |
| Jake McKenna | Parsons-McKenna Construction |
| Vince Nicotra | QPK Design |
| James Ruddock | Onondaga Community College |
| Kevin Stack | Northeast Natural Homes |
| Glen Stahl | Rochester Lumber Company |
| Richard Ziobro | Osmose |
| Russ Howe | Trus-Joist (Weyerhaeuser) |

b. Enumeration of governance service to the department:

Susan E. Anagnost

- Submitted proposed curriculum changes and additions to COI for approval
- Updated the SCME Policies and Procedures Manual
- Updated the CMWPE Outcomes Assessment Program to reflect changes in our undergraduate programs from two programs to one, Construction Management.
- Initiated the Self-Study following Guidelines provided by Valerie Luzadis, Associate Provost. The first part of the process, information gathering, is near completion. The self evaluation and outside review will follow during the 2010-11 academic year.
- Prepared the Annual Planning and Budgeting documents as requested by Provost Bongarten in March 2010. To help with this new process a form was developed for faculty to submit requests for each upcoming year which will be due each March.
- Participated in meetings and curriculum development for the Graduate Program in Environmental and Resource Engineering
- Advised students when advisors were unavailable
- Communicated with the CMWPE Advisory Board regarding changes in our programs and the

department name change.

- Organized the CMWPE Speaker Series in Sustainable Construction and Renewable Materials, including contacting and hosting speakers
- Met or communicated with prospective students
- Prepared, administered and analyzed the Freshman Student Survey, Fall 2008
- Prepared, administered and analyzed the Senior Exit Survey, Spring 2010, as part of the department's outcomes assessment program
- Lab Manager for the Wood Products Engineering Lab (WPEL)
- Organized the CMWPE department meetings (with exception to those organized by Acting Chair George Kyanka)
- Prepared and submitted the annual accreditation report to the Society of Wood Science and Technology

Paul Crovella

- Served at department booth at Healthy Buildings 2009 conference.
- Served at department booth at Construction Career Day
- Met with Paul Otteson to present multiple web pages for consideration of addition to department website
- Department representative for Committee on Instruction
- Department representative to Urban Studies Minor Committee

Robert Hanna

- Chair of tenure review committee

Rafaat Hussein

- Coordinate and faculty advisor for the Balsa Bridge Competition

George Kyanka

- Acting Chair, Oct 2009-May 2010
- As Acting Chair, coordinated submissions to COI
- Undergraduate Curriculum Coordinator Nov 2009-May 2010

Robert W. Meyer

- Tenure committee

Jennifer L. Smith

- Participate in regular department and advisory board meetings
- Participated in regular meetings of the Construction Management Curriculum Committee
- Review graduate applications
- Participated in the fall orientation meeting with new transfer students, 8/29/09
- Participated in the CMWPE Booth at Healthy Buildings 2009, 9th International Conference and Exhibition, 9/15/09
- Participated in the department-level celebrations for the December 2009 and May 2010 graduates (12/15/09 and 5/15/09)

William B. Smith

- Graduate Coordinator for SCME
- Regularly participate in, and make presentation at, ESF and CM & WPE Open House and other programs with admissions office for high school and transfer students when asked by faculty chair. Conduct laboratory tours and demonstrations. Regularly meet with potential students and parents, and other College visitors. Attend College Fall Barbecue and other student activities.
- Continued development of manuals, procedures and other management activity as Quality Manager of the Wood Products Engineering Laboratory to maintain our International Accreditation Service (IAS)

laboratory accreditation. The WPEL is accredited by the IAS as Testing Laboratory TL-317 www.iasonline.org.

- Regularly attend College and departmental faculty meetings, and December and May graduation Convocations.
- Assisted in updating the CMWPE content in the ESF College Catalog.
- Actively participated in CM / WPE developmental fund raising program. Worked with development office and make contact with industrial donors.
- Actively participate in meetings of the CMWPE Industrial Advisory Board.
- I provided several letters of support and references for undergraduate and graduate students and alumni for scholarships and full-time professional, summer job and internship employment.
- I regularly provided opportunity for undergraduate and graduate students, through both financial and other arrangements, to attend and participate at professional meetings. These include New England Kiln Drying Association Fall and Spring meetings, Forest Products Society Annual and Regional Meeting, and the Northeast Retail Lumber Association meetings.

Kenneth Tiss

- I have participated in the accepted student receptions and open houses since last July on a regular and ongoing basis to facilitate the success and recruitment of students looking at or coming to CMWPE.
- Participated in a regular and ongoing basis in CMWPE department meetings.
- Participated in the CMWPE strategic planning meetings.
- Participated in the CMWPE advisory board meetings.
- Traveled to Broome Community College on behalf of CMWPE and Admissions on a recruiting trip.
- I am responsible for the CMWPE computing facility and work closely with our administrative computing people to ensure problems are solved in timely fashion.
- I am responsible for our team in the Associated Schools of Construction Region 1 Construction Management competition. This involves selecting the team, overseeing the fundraising performed by the team, preparing the team, traveling to and participating in the competition and all of its events and then returning and closing out the event by holding a review session.
- I conduct review sessions for our students taking the Associate Constructor examination. This year I held six sessions in February and March of 2009 in which a total student count for the sessions was eighty.
- I serve as the curriculum coordinator for Construction Management. This involves many issues related to the curriculum and the coordination of ideas and changes. In addition I work closely with admissions dealing with the acceptance of transfer courses and the currency of the transfer agreements with our SUNY transfer colleges. I resigned from this in December in order to complete my PhD.
- Attended the 2009 Environmental Career Fair and met with our participating alumni and employers whom support our department graduates.
- Attended the Higher Degree ceremony and presented Mr. Derek Van Campen for his MPS work.
- Completed a Construction Management program construction materials proposal that I have worked on the last couple of months. This will be presented to the CM subcommittee when we meet in the fall semester.
- Ordered and voluntarily supplied OSHA posters for Room 154 Baker Laboratory.
- Met with Mr. Tony Barejka and Dr. Jennifer Smith in an exploratory meeting concerning department involvement with electron beam work.
- Manned the CMWPE booth at the Healthy Buildings Conference at the OnCenter for half a day.
- Participated in the PSM development process.
- Organized student volunteer guides for Construction Career Days in October.
- Attended a meeting with Dr. Murphy, Dr. Bongarten, Mr. French and Dr. Anagnost to go over the CM curriculum changes. Presented the changes and rationale. Much discussion was had regarding the changes but overall things went relatively well.
- Discussed 10/12 presentation with Ms. Susan Sanford as to content and audience.
- Doug Morrison spoke with me regarding Habitat for Humanity student chapter and their current status

relative to next years house.

- Working with Admissions concerning two visits to feeder institutions. One to Broome Community College and the other to Tompkins Cortland Community College. The Broome visit did occur in early December however the Tompkins visit did not occur as no students currently were looking to advance to a four year institution.
- Moved monitors and books out of Construction Safety Lab in order for ERFEG to use the room.
- Been working with a number of individuals and departments relative to an education program for the South Side Incubation Center. Still a work in progress.
- Attended Paul Crovella's course presentations in his BIM course.
- Placed our departments vote regarding the ASC board members for the upcoming term.
- Updated my course descriptions to the new college format per the request of OI&GS.
- Conducted just two Associate Constructor examination review sessions due to a student issue.
- Referred Professor Doble to Bud Kelleher for her service learning project.
- Set up and conducted a meeting of the CNY Chapter of the American Concrete Institute on campus for our students to gain exposure to the industry. This was very successful. The topic was about the professional opportunities in the concrete industry.
- Prepared a letter of nomination for Wil Mannion at University of Maine for his nomination as Engineer of the Year for the Maine section of ASCE.
- Renewed RemRate software used in Kevin Stack's course.
- Reworked donation request to Lynn Ladder per Dr. Kyanka's request only to find that they were not in a financial position to donate.

c. Governance Service to the College

Susan Anagnost

- Department Chair for SCME (formerly CMWPE)
- Assistant Director, N.C. Brown Center for Ultrastructure Studies
- Academic Council
- Member of the Dean's Graduate Council
- Member of the committee to develop a Professional Science Masters / Certificate program at ESF. Participated in developing the draft of the proposal for funding
- Representative of SUNY ESF on the Board of Directors of CORRIM (Consortium for Research on Renewable Industrial Materials)

Paul Crovella

- SCME representative to Committee on Instruction
- Co-chair for CO subcommittee on Instructional Quality
- Search Committee Member for two positions for construction site representatives
- Department representative to Urban Studies Minor Committee
- Filmed 4 "Going Green" segments for Office of Communications
- Panel member for "Central Issues" program on green building at WCNY

Robert B. Hanna

- Director, N.C. Brown Center for Ultrastructure Studies

Rafaaf Hussein

- Chair of the ESF Personal Safety Committee.
- Member of the ESF Workplace Violence Committee
- Environmental Systems & Risk Management group - member.
- Participations in various campus communications:
ESF graduate admission.

ESF Waste Audit.
ESF Academic Affairs Newsletter.

George Kyanka

- Acting Chair, Dec. 2009-May 2010
- Member, ESF Promotion and Tenure Committee
- Represented ESF at the NYS Technology Association (NYSETA) meeting

Robert W. Meyer

- Director, Tropical Timber Information Center
- Attended the CORRIM Annual Meeting, June 2010 as the representative for the College.

Jennifer Smith

- Attend regular faculty governance meetings
- Member of the ESF General Education Subcommittee through 9/09. Participated in meetings and reviewed petitions
- Member of the ESF Committee on Public Service and Outreach (COPSO)

William B. Smith

- Chair, Committee on Outreach and Public Service
- SUNY ESF Wood Utilization Service, Director.
- Regularly participate in ESF and CM & WPE Open House and other programs with admissions office for high school and transfer students when asked by faculty chair. Conduct laboratory tours and demonstrations. Regularly meet with potential students and parents, and other College visitors. Attend College Fall Barbecue and other student activities.
- Regularly provide formal and informal presentations, discussions and tours on Construction Management and Wood Products Engineering to alumni, industrial, international and other visitors.

Kenneth J. Tiss

- I was a member of the Committee on Instruction who participates fully and regularly. I resigned from this committee in order to complete my PhD.
- I was the Chairperson of the Academic Standards Subcommittee who participates fully and regularly. The main duties include the overview of late drop petitions and the coordination and conducting of the regularly scheduled suspension appeals review meetings (two per year). I resigned from this committee in order to complete my PhD.
- As a member of the Committee on Instruction I also drafted and brought to adoption an addition to our current petition form for the sole purpose of late drop requests in order to make the process more efficient.
- As a member of the Committee on Instruction I also drafted and brought to adoption a new Committee on Instruction a requirement concerning the dropping of required courses on the ESF campus.
- As a member of the Committee on Instruction I also drafted and brought to adoption a new policy concerning the transfer of students from Syracuse University due to our unique relationship with Syracuse University.
- As a member of the Committee on Instruction I also drafted and brought to adoption a new policy concerning the retaking of courses and the R grade on the ESF campus.
- Attended several college wide ESF faculty meetings.
- Attended the Spotlight on Research held in April 2009.
- Was part of the selection committee for this year's ESF Foundation award for Teaching Excellence.
- Chaired the Academic Integrity committee and administered the process for a hearing concerning an allegation of academic dishonesty. Results were transmitted as per the established process.

7. Student Learning Outcomes Assessment

a. Data collected

There are six assessment tools available for the B.S. program in Construction Management.

1. Associate Constructor Examination, Part 1 of the Certified Professional Constructor (CPC) process
2. Assessment of Student Competency to assess how material is delivered in coursework based on the percentage of students with passing grade for each learning outcome
3. Portfolio of Student Accomplishments developed based on the CM list of outcomes and produced by the student during the two- or four- year period that the student is enrolled
4. Capstone course, *Construction Project Management*
5. Exit Survey for graduating seniors
6. Survey of Recent Alumni

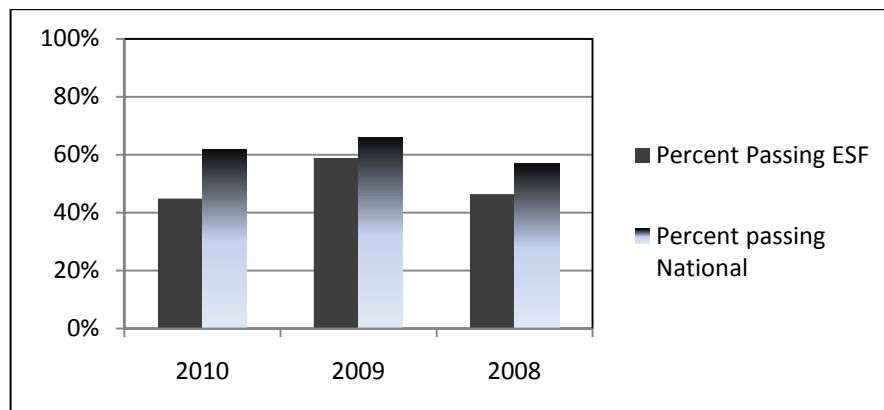
For the academic year 2009-2010 data were collected with three of the six assessment tools, Associate Constructor Examination, Part 1, the Capstone course, *Construction Project Management*, and the Senior Exit Survey.

b. Results and conclusions

1. Associate Constructor Examination

The Associate Constructor Examination was given in March 2010 to graduating seniors. Results were provided by the AIC-Associate Constructor Commission for our candidates and for national candidates. A copy of these results is on file in the SCME department office.

| Overall results | ESF | National |
|-----------------------------|-----|----------|
| Number of Candidates Tested | 28 | 1132 |
| Number of Candidates Passed | 13 | 701 |
| Number of Candidates Failed | 15 | 431 |
| | | |



The pass rate was 46% compared to the national pass rate of 62%.

The exam assessed competencies in 10 areas of instruction. Nationally there were two categories of weakness, Communication Skills and Bidding and Estimating. Locally at ESF there were five areas of weakness based on the school average: Communication Skills; Engineering Concepts, Bidding and Estimating; Planning, Scheduling and Control, and Project Administration.

Results for individual students indicated areas of weakness as follows: Four students performed very well in all categories, and with no areas of weakness. Students with passing scores (13 of 28) exhibited weaknesses in 0 to 5 categories, while students with failing scores (15 of 28) exhibited weaknesses in 4 to 9 categories.

| <u>Topic</u> | <u>Area of weakness (# of students)</u> | | |
|--------------------------------------|---|---------------------|---------------------|
| | <u>2010</u> N=28 | <u>2009</u> N=17 | <u>2008</u> N=26 |
| Communication Skills | 13 | 11 | 14 |
| Engineering Concepts | 13 | 4 | 11 |
| Management Concepts | 9 | 2 | 10 |
| Materials, Methods, and Plan Reading | 10 | 6 | 8 |
| Bidding and Estimating | 18 | 9 | 12 |
| Budgeting, Costs, and Cost Control | 12 | 4 | 15 |
| Planning, Scheduling and Control | 19 | 12 | 16 |
| Construction Safety | 8 | 3 | 8 |
| Surveying and Project Layout | 6 | 3 | 8 |
| Project Administration | 16 | 2 | 13 |

Our Outcomes Assessment Plan used the following targets to measure success for both the overall scores and the scores for each topic area:

- Exceeding expectations > 80% pass rate
- Meeting expectations > 70% pass rate
- Approaching expectations > 60% pass rate
- Not meeting expectations < 60% pass rate

For the overall scores, the CM program is at the <60% pass rate, or Not Meeting Expectations.

For individual categories of competency, the results are:

- Exceeding expectations; >80% pass rate:
- Meeting Expectations; >70% pass rate:
 - Construction Safety
 - Surveying and Project Layout
- Approaching Expectations; > 60% pass rate:
 - Management Concepts
 - Materials, Methods, and Plan reading
- Not Meeting Expectations; <60% pass rate:
 - Communication Skills
 - Bidding and Estimating
 - Planning, Scheduling, and Control
 - Engineering Concepts
 - Budgeting, Costs, and Cost Control
 - Project Administration

2. The results for the Capstone course, *Construction Project Management*

This course addresses the learning outcomes:

2. Knowledge of and ability to apply construction management fundamentals to real construction projects
3. Ability to manage construction projects in the following fields of construction: residential, commercial, heavy, highway, and industrial
7. Ability to develop, implement and maintain a critical path schedule for the management of construction projects and their budgets
8. Ability to successfully manage the delivery of construction projects within the contractually defined delivery system by completing a project on time, under budget, of desired quality in a safe manner
13. Ability to implement current requirements for the successful delivery of sustainable construction projects
14. Awareness of professional responsibility and ethics in construction management, including the need to look out for the public's interest, and to deliver service that includes responsible, fair, and unbiased input to the client in accordance with current professional practice

This year 97% of the students passed the course, one student received an F. Thirty-six percent (12 students) of all students received an A while 61 % (20 students) received a B.

| | |
|--|-------------|
| Needs Improvement (% of students with grade of D or below) | 1 (3%) |
| Competent (% of students with grade of C) | 0 |
| Proficient (% of students with grade of B) | 20 (60.64%) |
| Exemplary (% of students with grade of A) | 12 (36.36%) |

Conclusion: Most students performed very well, with 97% at B or better.

3. The results of the Senior Exit Survey for graduating seniors

The results are shown in **Appendix 1**. In summary, the survey indicated that students had favorable view of our curriculum, advising, facilities and ESF. There was some concern that we didn't spend enough time advising the students when they first arrive on campus. In response to specific questions about courses, there were a variety of responses that seemed to reflect different perspectives. Some students thought we should drop or lessen the engineering component and add more business management. Others thought we should increase the engineering and building materials components. Some of the changes that the students suggested are already being implemented in the new curriculum, but these students were not aware of that.

The responses to questions about courses, there were several negative comments about the engineering courses; that they need improvement. The core construction management courses were looked at the most favorably regarding content and the way they are taught. The wood properties course had a very favorable review; however, nearly one-half of the students thought it should be dropped. There was also a concern that we have too many open electives. Other courses that they thought should be dropped were Calculus II and engineering. Many felt that Chemistry was too in-depth for them as non-Chemistry majors.

Suggested courses to add to the curriculum included engineering, concrete, building materials, building science, management, business ethics, law; and BIM Building Information Modeling, and more Estimating. Many students felt that they would prefer to have more labs in the courses, and that the current labs were repetitive across several courses, and covered similar content.

As for topics that they felt were lacking, many said that we should offer content on concrete and steel as materials and their use in construction.

Many students felt that the internship should be mandatory and that it was an essential part of their education. Those that took the internship course (9 students) valued it highly for its practical, hands-on experience in construction management.

Their response to questions 25 and 26 indicated that these student's views about courses in environmental aspects of construction management are different than several years ago. This year the students felt that inclusion of environmental aspects of construction management in the curriculum was essential (7 students), or very much a concern to them (10) while five felt it was somewhat a concern, and only 1 felt that it was no concern. Most of the students (21) said they would be interested to take courses in sustainable construction.

c. Actions taken in response to assessment results

1. Actions taken in response to the results of the Associate Constructor Examination

The department has required the Construction Management students to take the ACE for the past four years. Efforts will be made to provide review and study sessions for the students to prepare them for the exam. The areas of weakness may be an indication of issues with instructional quality during the academic year 2007-08 when we employed a temporary lecturer to teach several courses. We expect that results will improve with our current faculty, and we will track the results over the next few years to see if scores improve for these categories.

2. Actions taken in response to the results for the Capstone course, *Construction Project Management*

The results indicated that most students performed well, with 97% at B or better. No actions are taken at this time although there are plans to revise the course into a capstone with industry-based projects.

3. Actions taken in response to last year's Senior Exit Survey

In response to last year's results of the 2009 Senior Exit Survey their comments were taken into consideration during the past year as we restructured the CM curriculum. Many of the same comments were received in the 2010 Survey; the students were not aware that these changes are going to be made, and many of their comments have already been addressed in the new curriculum. This includes new courses in engineering materials to cover concrete and steel.

- a. There was some concern that we didn't spend enough time advising the students when they first arrive on campus. **Actions taken in response:** We have developed a student advising manual which we will go over during orientation.
- b. The responses to questions about courses, there were several negative comments about the engineering courses; that they need improvement. **Actions taken in response:** We need to improve instruction in engineering, and provide tutoring.
- c. The core construction management courses were looked at the most favorably regarding content and the way they are taught. **Actions taken in response:** We need to maintain our instruction in the core CM courses; this indicates we are on the right track with our core curriculum.
- d. The wood properties course had a very favorable review; however, nearly one-half of the students thought it should be dropped. **Actions taken in response:** The wood properties course has been change to Renewable Materials for Sustainable Construction, and the new course will include wood properties and properties of other renewable materials. Other construction materials will be covered in other courses, which should alleviate concern that coverage of concrete and steel has been neglected while wood is covered heavily.
- e. There was also a concern that we have too many open electives. **Actions taken in response:** Our new curriculum has fewer electives.
- f. Suggested courses to add to the curriculum included engineering, concrete, building materials (concrete and steel), building science, management, business ethics, law; and BIM Building Information Modeling, and more courses on construction estimating. **Actions taken in response:** We have added BIM and new courses in engineering materials for construction to our curriculum. We need assistance from the SUNY ESF administration to allow our students to take business courses at SU without enrolling in the business minor.
- g. Many students felt that they would prefer to have more labs in the courses, and that the current labs were repetitive across several courses, and covered similar content. **Actions taken in response:** In our new curriculum we are restructuring the labs and will cover all construction materials.
- h. Many students felt that the internship should be mandatory and that it was an essential part of their education. Those that took the internship course (9 students) valued it highly for its practical, hands-on experience in construction management. **Actions taken in response:** We will continue to work with our Advisory Board to assist us in developing industry contacts for internships, so that enough opportunities can be available for all of our students. We can't make it mandatory until there enough internships opportunities for all students.
- i. Their response to questions 25 and 26 indicated that these student's views about courses in environmental aspects of construction management are different than several years ago. This year the students felt that including aspects of construction management in the curriculum was essential (7 students), or very much a concern to them (10) while five felt it was somewhat a concern and only 1 felt that it was no concern. Most of the students (21) said they would be interested to take courses in sustainable construction. **Actions taken in response:** We appear to be on the right track with our new curriculum which adds courses on sustainable construction, energy systems in buildings, renewable materials, and building rating systems.

d. Modifications of assessment plans

Action items for modifying our assessment plans for both majors:

1. Modify the target metrics for the Assessment of Student Competency to 80% rate for each grade level:

The targets for success for each learning outcome are tabulated as follows:

Exemplary (exceeds expectations) 80% of students with A

Proficient (meets expectations) 80% of students with B or better

Competent (approaching expectations) 80% of students with C or better

Needs Improvement (not meeting expectations) 80 % of students with D or better

2. The comments from each faculty as to how to address poor performance and modify courses for improvement needs to be expanded; it would be helpful if all faculty provide specific suggestions to improve the means of delivering the course material for the learning objectives. We should look to make modifications to our learning objectives as our curriculum changes. This process needs to be updated to our new curriculum and new learning outcomes.
3. The Capstone course needs a separate form for evaluation.
4. Student Portfolio is in progress and needs further development.

8. Progress on Objectives for 2009-2010

a. Department specific initiatives and their relationship to College strategic plan

Teaching and Curriculum Development Initiatives:

Initiative: New curriculum in sustainable construction and renewable materials

Initiative: Curriculum Review of Construction Management in reaction to comments provided by industry, advisory board, and student reviews from the senior exit survey and alumni

Initiative: Curriculum Review of Wood Products Engineering in reaction to comments provided by industry, advisory board, and student reviews from the senior exit survey, alumni, and in reaction to continued low enrollment

Initiative: Two successful faculty searches will further support the development of curriculum as well as research in the areas of sustainable construction

Progress 2009-10:

We have responded by developing and implementing a new curriculum in Construction Management with new required courses in several areas of sustainable construction as well as building information modeling and a course in document reading and interpretation. These new courses were developed in response to our Advisory Board, senior exit surveys, and alumni. The ESF Administration decided to eliminate the Wood Products Engineering program hence our efforts were curtailed at changing the program into a Building Materials and Building Science program. The department name was changed to Sustainable Construction Management and Engineering” to better reflect our program and to show that we have made programmatic changes; the program name continues as “Construction Management”.

Professional Development Initiatives:

Initiative: Professional development of faculty in areas of sustainable construction. Specifically, attendance at conferences, short courses and workshops that support coursework and curriculum development

Progress 2009-10:

Our faculty attended many short courses and workshops to support coursework and curriculum development (see pages 14-15).

Research Initiatives

Initiatives: Accreditation of the Wood Engineering Lab by the International Accreditation Service

Progress 2009-10:

We have maintained accreditation of the WPEL by IAS. Other research initiatives include new funding to support research in materials (Smith, J., Anagnost) and economic

development in the forest products industries in NYS. (Smith, W.) . A proposal was developed by Mark Driscoll for a new Center for Adhesives, Coatings and Composites which if approved will have involvement from our faculty. Our department will also support the center with equipment.

Outreach Initiatives

Initiative: Green Building Conference

Initiative: Kiln Drying Workshop

Initiative: Speaker Series in Sustainable Construction and Renewable Materials

Progress 2009-10:

We continue to offer these outreach programs.

Professional Society Initiatives:

Initiative: Participation in the National Research Needs Assessment Workshop for wood products research and utilization

Initiative: SUNY-ESF and CMWPE Membership and participation in CORRIM

Progress 2009-10:

There is considerable involvement by our faculty in professional societies, SWST, CORRIM, ASC, ASCE, ACI, NEKDA, and others.

Economic Development Initiatives:

Initiative: Participation in the Community Conversation on Construction in April 2009, to interact with educators, industry, and those in economic development programs, to discuss the development of programs and facilitate workforce development for the construction industry in central New York

Objectives for 2008-2009 include those listed in our Strategic Plan plus the objective to develop and implement an outcomes assessment program to assess the learning objectives for the two majors, as described in Section 7. Our objectives thus included: Continue to develop our curricula to meet the objectives of our strategic plan; expand our focus on sustainable construction and building materials, with input from our advisory board, students, and employers of our students; develop and implement the outcomes assessment programs for the two majors; make changes to the programs as warranted. Expand our research programs; expand our recruitment efforts; continue with our Speaker Series on Sustainable Construction and Renewable Materials and other outreach activities.

Progress 2009-10:

We met with representatives from CNYWorks and the South Side Innovation Center to discuss ways to provide instruction in Construction Management for people in the Syracuse area. Several of our faculty will provide instruction at SSIC this upcoming academic year (2010-2011). We are developing a certificate program.

Faculty progress reports

In addition to the departmental progress report, each faculty member was asked to provide one paragraph on each of the following: What have you done this past year, for the students, department/college, and self professionally? This is included here in **Appendix 2**.

b. Update of Departmental Strategic Plan

The 2010 Progress Report of the first three-and one-half years of our five-year strategic plan is in **Appendix 3**. This progress report utilizes two sections from the original CMWPE Strategic Plan to illustrate our progress towards the goals developed during our visioning process and described in our five year plan. The first section is the Plan for Action that lists seven steps we are taking to achieve our goals. Although these were intended as initial steps, we are indicating our continued progress with these steps. The second section is Section 5.4, the Milestones to Measure our Success. Here we provide metrics as of July 2010. You will note in Section 5.4 that amendments have been made to some of our initial goals.

9. Performance Programs

Current performance programs for professional employees:

Mr. William Kelleher, Instructional Support Specialist; Lab Supervisor, WPEL
- Current as of June 2010

Mr. Robert P. Smith, Instructional Support Specialist, N.C. Brown Center for Ultrastructure Studies
- Current as of June 2010

Appendix 1 Senior Exit Survey

2010 Senior Exit Survey Results and Discussion April, 2010

The survey was administered on April 29, 2010 during the Construction Project Management class. Twenty-three students participated in the survey and discussion with Provost Bongarten, Dr. Anagnost, and Dr. Kyanka. This document provides both oral and written responses to the Senior Exit Survey for May 2010 graduates.

The responses are in two parts, the written responses (Part 1) and a summary of the discussion with the Chair and Provost. A summary of the survey results and our actions taken in response to student comments are included in the SCME Annual Report assessment report.

Part 1. Written responses

1. How do you rate the quality of education at ESF?

2 Excellent
11 Very good
8 Good
2 Fair
0 Poor

Please comment on any specific courses:

Statics and mechanics were poorly taught

Some taught well, some were not

Very good- Constr project management; Planning and Sched; Contracts and specs; Estimating

2. How do you rate the overall quality of teaching in the CMWPE curriculum?

0 Excellent
7 Very good
10 Good
5 Fair
1 Poor

Please comment on any specific courses

Engineering courses are lacking

Most courses are poor

Good- wood properties, Constr project management; Planning and Sched; Contracts and specs; Estimating

Need more structure and organization in nearly all courses, define objectives!

3. Do you feel that the courses in CMWPE are preparing you well for a career?

5 Yes
18 Somewhat
0 Not at all

4. Please comment on the number of courses in your major.

1 There were too many courses in the major
13 The number of courses in the major was just right
9 There were not enough courses in the major

Too many courses we don't need, need more related to our actual major

Too many free electives

5. What course or courses would you add to the program requirements for the Construction Management major?

Finance, business courses

Welding, Concrete, steel design; all classes with nothing but these subjects

Do not add; instead refine courses with better material

Green course, concrete course, more hands on, green building, LEED etc

More labs, more hands on

Concrete, welding, building and testing

Concrete, policy, management, business

Human resources management, accounting, concrete, business management, estimating, business law, structures, commercial construction

BIM, more on materials, business law, accounting, LEED classes, more estimating

Business law, commercial construction similar to Light Construction, BIM

Concrete

A course on concrete that looks in depth at its chemistry, placement techniques and testing procedures

A true capstone project, ethics, communications, building systems

Accounting, business law, concrete, mandatory internship

A more in-depth materials course; composite materials is not enough

More communications courses

Business management, HR management, business ethics

Business and administrative courses; legal, law; more communications courses

More business classes

Concrete, finance, commercial construction

6. What course(s) would you drop from the Construction Management major?

Calc II (3responses)

Contracts and specs (1)

Wood properties (11 responses)

Global Environment (2)

Gen Eds (2)

Light Construction 1

Autocad, some engineering (geotech, mechanics)

Professional communications (5)

Senior seminar, Geotech

Either Timber Design or wood properties; one is enough

Sustainable construction – all of the material is covered in other classes

Timber design

composite materials-it needs to be taught better or changed drastically

chemistry, art, Fine arts, western civilizations

Engineering; replace with management/business

make light construction an elective

7. What course was the most valuable?

All construction related courses

Construction project management (8 responses)

Project management tied all courses together

Geotech

Estimating (5)

Light frame

Planning and Scheduling (3)

Contracts and specs
Sustainable Innovations in residential construction (2)
Safety (2)
Mech. and Elec. equipment
Codes
Autocad
Timber Design project
Project management – I liked the content and how it was taught
Principles of management

8. What course was the least valuable and why?

Calc 2-a number of people in the field say they have never used it on the job.
Mechanics and engineering courses, Calc 2
Properties of wood- as a CM probably don't need to know about lignin and cellulose
Wood properties- most commercial construction is steel
Light frame, and wood structure and properties
Statics- grading is unclear; Bernard was great
Planning and scheduling-how does Suretrack work; what happened to timberline?
The engineering courses-I didn't learn anything because the teacher didn't care
Autocad because we don't learn enough to do it on a full time basis and there are more proficient people coming from community colleges.
Estimating –did not learn anything new
Either wood properties or geotech-I did well in both but they are far too in depth for this program
Mechanics of materials- I learned nothing
Sustainable construction- the material was covered in other classes
Value engineering
Statics, I was not taught properly. Mathematics needs to be taught as a process. We had to learn on our own out of a textbook
Estimating-we did not use any software that is present in the industry
Wood properties; not much learned, too much time spent
Chemistry-way too focused for non chem. Majors
Wood structure and properties needs to be updated for CM
Cost engineering; covered in other courses (here or?)
Timber design; no new concepts taught

9. What core component of construction management would you like to see enhanced in the program?

Business management
Materials
Maybe more engineering courses
Statics and mechanics
Need more labs - all we did was break 2 by 4's; it was a waste
Whatever the industry demands
Estimating, materials, more hands on courses, business component
Estimating
Estimating
Legal and business aspects
More hands on approach (manage a habitat project or deconstruction on the near west side)
Building practices and how assemblies are put together. There is no focus on this part of the industry
Building technology systems
It needs to be more hands on. In light frame we should build a light frame shed, in composites we should mix concrete, Also more needs to be taught on the legal side. The lab needs to be used more. We did the same thing, breaking a 2 by 6 five times and barely anything else.

Materials

The technical communication aspect

Construction materials and techniques in their implementation in the construction process

The business management side of the industry

Legal issues in CM

More on business; materials

Broaden the management component

10. Which of the following topics would you like to see more content in the curriculum?

4 Engineering

17 Management

12 Green/sustainable construction

2 Design

14 Building materials

12 Building methods

12 Building science

Other _____ welding, legal issues

11. All students are required to take the Constructor Qualification Exam, Part 1 (Associate Constructor exam) which is the first step to becoming a Certified Professional Constructor. How do you rate the value of taking this exam?

2 Very highly

4 Highly

5 Somewhat

8 Little value

5 No value

Comment: Instead strive to become an accredited program. It looks better

12. Do you feel your coursework in construction management at ESF prepared you well for the Associate Constructor exam? If not, please comment on which topics you felt you were not sufficiently prepared.

13 Yes

10 No

Comment:

Yes for the most part, but estimating fell short

The legal side, contract law, estimating (took from Burlin)

Engineering contracts

Concrete, legal issues, estimating

Field experience is the best preparation

Never heard of many of the materials on the exam

Engineering

This is a shame that we did not review enough and the faculty wonders why the grades are so low. Easy answer: more review.

Engineering component

13. How do you rate the quality of the CMWPE elective courses?

3 Excellent

3 Very good

12 Good

2 Fair

1 Poor

1-no response-did not take any electives; transfer –all elective slots full (2)

Please comment on any specific courses

A+ for BIM and sustainable construction, etc

Energy systems was good
BIM is great
Took architecture courses at SU
Good-sustainable innovations course
Sustainable innovations in the best hands on LEED course

14. How do you rate the quality of the general education courses?

3 Excellent
3 Very good
6 Good
8 Fair
3 Poor

Please comment on any specific courses
Some are useless but know it is mandated by SUNY
Chemistry is a waste of time
All were excellent and enjoyable
Very demanding but valuable
Shouldn't require global environment
Global environment is good
Over the top compared to Gen Ed courses I transferred in with
History should be construction history

15. How would you rate the facilities (classrooms, access to computers and software) in the CMWPE program?

11 Excellent
7 Very good
4 Good
 Fair
 Poor

Please comment
Nice place!
Great learning environment
Room 154 needs recycle bin
Navisworks should be put in CM lab
It would be nice if card reader to room 154 worked to keep out non-CM students
There should be more lab time testing materials; we have an excellent facility which we hardly use
Should have fewer classes in room 154; restricts access to computers; use room 159 instead
Coffee pot in lab

16. Considering that it is the student's responsibility to be aware of coursework requirements and the registration process, how do you rate the quality of your advisor in the advising process?

8 Excellent
4 Very good
7 Good
3 Fair
1 Poor

17. Please comment on any difficulties that you encountered during advising and registration
I should have been exempt from taking estimating but yet I still had to take it (took it at another school)
Unclear path and direction on which courses to take
None
None
Registrar

I had an issue with the registrar; they were rude and unprofessional
Favoritism seems evident
No problem; Crovella is great!
None, process seems very easy
Things weren't always organized prior to advisement, makes it hard to pick electives
Conflict with 2 required classes that I need to graduate; it is BS that global environment online course is only for non-matriculated students
Advisor never helped me map out a plan
Coordination and class schedule was difficult at first, but it inspired me to take action and be responsible for my future
Advice was minimal; I went to other profs for advice
Had one problem but it was resolved

18. Did the coursework in CMWPE help you to think critically on your own?

- 11 The coursework provided many opportunities to think critically on my own
- 12 The coursework provided some opportunities to think critically on my own
- The coursework provided few opportunities to think critically on my own
- The coursework provided no opportunities to think critically on my own

19. Did the course work in CMWPE provide the opportunity to improve your communication skills, including technical writing, speaking, and other forms of communication?

- 4 The coursework provided many opportunities to improve communication skills
- 15 The coursework provided some opportunities to improve communication skills
- 3 The coursework provided few opportunities to improve communication skills
- 1 The coursework provided no opportunities to improve communication skills

20. How well do you feel the CMWPE program prepared you for prepared you for a career in construction management or wood products engineering?

- 7 I feel very well prepared to enter a career in CM or WPE
- 16 I feel somewhat prepared to enter a career in CM or WPE
- I do not feel at all prepared to enter a career in CM or WPE

Comment - because of my work done outside the classroom (not an internship)

21. How do you value the general education courses as part of your educational experience?

- 3 The general education courses were essential to my educational experience
- 1 I value highly the general education courses
- 8 I value somewhat the general education courses
- 8 I place little value on the general education courses
- 2 I find no value in the general education courses

22. If you took an internship in CMWPE, how well did you value the internship experiences?

- 6 The internship experience was an essential part of my education in CMWPE
- 5 I valued highly the internship experience
- 0 I valued somewhat the internship experience
- 0 I found little value in the internship experience
- 0 I found no value in the internship experience
- 13 I did not take an internship

Please comment on the internship experience

More practical hands on experience than in the classroom

Did not take one but feel they are essential

Unable to take one

The program needs to arrange more internship opportunities

23. How well do you rate your knowledge and skills in the following categories of construction management?

| | Very Highly | Highly | Average | Fair | Poor |
|--|-------------|--------|---------|------|------|
| Construction manager | 1 | 8 | 12 | 3 | |
| construction estimator | 2 | 5 | 14 | 4 | |
| blueprint reader | 4 | 6 | 11 | 2 | |
| communication skills | 2 | 12 | 7 | 3 | |
| team player | 10 | 9 | 5 | 1 | |
| construction safety | 5 | 13 | 7 | | |
| knowledge of construction contracts and specifications | 2 | 6 | 13 | 2 | |
| professional ethics | 7 | 11 | 5 | 1 | |

24. How well do you rate your knowledge and skills in the following areas related to sustainable construction and renewable materials?

| | Very highly | Highly | Average | Fair | Poor |
|--|-------------|--------|---------|------|------|
| Understanding of the principles of sustainability | 4 | 9 | 5 | 1 | 2 |
| Understanding of green rating systems | 2 | 5 | 10 | 2 | 3 |
| Understanding of how to apply concepts of sustainability to your field | 3 | 8 | 8 | 3 | 2 |
| Understanding energy systems in buildings and impact of energy use on the environment | 3 | 9 | 3 | 5 | 2 |
| Understanding of the impact of wood utilization on the environment, compared to other construction materials | 2 | 8 | 9 | 2 | |

25. Are learning about the environmental aspects of construction management a concern to you?

- 7 They are essential to me
- 10 They are very much a concern to me
- 5 They are somewhat of a concern to me
- 1 They are of no concern to me

26. The CMWPE department recently began offering courses in sustainable construction, energy systems in buildings, green rating systems and building materials. Are these courses of interest to you?

- 14 Very interested
- 7 Somewhat interested
- 2 Not at all interested

27. How would you best describe the CMWPE classroom learning atmosphere? Select as many answers as are appropriate.

- 17 Instructors welcome input from students
- 3 Instructors do not welcome input from students
- 12 Instructors act in a professional manner
- 9 Instructors sometimes act in an unprofessional manner
- 15 Instructors treat students fairly
- 4 Instructors treat students unfairly

Other (please specify): Depends on instructor; have seen both ends of the spectrum

Very open to discussion; sometimes treat students unfairly

28. During class time was there disruption by other students that interfered with instruction?

- 1 Often
- 7 Sometimes
- 11 Rarely
- 4 Never

29. Did you experience any uncomfortable situations in the classroom?

- 1 Yes, often.
- 2 Yes, sometimes
- 10 Yes, rarely
- 10 No, never

30. If you answered yes to the previous question, what was the cause of the uncomfortable situation in the classroom? Select as many answers as are appropriate.

- 7 Other students in the class being disrespectful to the instructor
- 5 Other students in the class being disrespectful to fellow students
- 4 The instructor's comments
- 11 The instructor's attitude

Other (please specify)

There should be a shut-off switch in room 154 to turn off computers so people aren't goofing off on computers during class

A group of students did not respect students or instructors; a difficult semester

Instructor attitude: disagreements on types of discussions between students and instructors

My personal opinions are meant to be private and some discussions I felt I couldn't be a part of or made me close my ears to.

31. How do you rate participation in student groups such as the Student Construction Association, the Forest Products Society?

- 4 I highly valued my participation in these student activities
- 6 I found some value in my participation in these student activities
- 8 I found little or no value in these student activities
- 6 Did not participate

Please comment: Lack of student interest; where is faculty involvement?

32. How do you value your participation in the community service programs that ESF offers?

- 2 It was essential to my educational experience at ESF
- 2 I value highly my participation in community service at ESF
- 7 I value somewhat my participation in community service at ESF
- 1 I place little value on my participation in community service at ESF
- 10 It added no value whatsoever to my educational experience at ESF

33. What are your plans after your graduate from ESF? Please check as many responses as applicable to your situation.

- 6 I have obtained employment in my field of study at ESF
- 1 I have obtained employment outside my field of study at ESF
- 10 I am interviewing for jobs
- 7 I am planning to attend graduate school
- 2 I am planning to take time off
- 14 I am planning to work in New York State
- 3 I am planning to work outside of New York

Please comment on your plans after graduation, such as employer, location, type of job, graduate school, other
Working fulltime but searching for a job in the CM field

Employed from connections I have made, the degree has helped me get a foot in the door, I have done the rest
Masters at SU or AZ State for more education; based on slump in construction industry
May continue where currently employed but grad school or different job more likely

34. Was this survey of any value to you?

11 Yes

8 Somewhat

4 No

please comment on the value of this survey

Truth comes out

Yes, only if this will be actually taken seriously

Nothing will come of it; the results will be delayed for another 5 years and the CM department will be further behind

35. If you had an opportunity to add a question to this survey what would it be, and why?

A question on social aspects of ESF

Just merge the dept with FEG; we take a lot of their classes

Do you think there should be a CM specific career fair?

Did you take classes at SU while at ESF?

Do you feel we lacked in communication aspects which are vital to surviving in the CM industry?

Do you feel we are on the leading edge of our field of study?

Did you feel that you were given access to or encouraged to take classes offered at SU to supplement your ESF education?

Part 2. Summary of Discussion with the Chair and Provost

1. How do you rate the quality of the CM program at ESF?

Employers recognize this program as unique in a positive way; strong program.
The program lacks a systematic approach to the curriculum

2. Responses to questions regarding courses and curriculum:

Need to offer courses both semesters to help transfer students fill the requirements in a timely manner

Timber design is not necessary; integrate into other courses (Statics and Mechanics)

The wood courses and geotechnical engineering have too much depth for what they need as construction managers

More opportunity for business courses; too much engineering

Need a course in commercial construction; most graduates go into commercial construction

Curriculum lacks technical communication preparation; writing letters and emails

Internships should be mandatory

Ethics courses are needed

The program should become accredited by ACCE

Would like to see more on technical communication skills and business management

3. Comments on Advising

Advisor needs to commit more time to advising especially at the beginning

I received poor advising and as a result took courses out of sequence

Appendix 2. Faculty specific retrospectives: summary of significant activities and accomplishments for 2009-10

Each faculty member was asked to provide one paragraph on each of the following: What have you done this past year, for the students, department/college, and self professionally?

Susan E. Anagnost

Students – I advised students with coursework and scheduling; I continue to solicit feedback from students and our advisory board on our new curriculum to help us determine the best use of our program in providing our students with marketable skills in construction management. I have learned that students would like to see a better introduction to our department and will work to make improvements.

Department/College- I have revised and updated our Outcomes Assessment program, department webpages, catalog pages and department policies document to conform to our new department structure, following the elimination of the Wood Products Engineering program. I am continuing with the implementation of our outcomes assessment program. At the request of Provost Bongarten our department has initiated a self study. I am leading the preparation of the document which includes an internal review (information gathering and self-evaluation) and external review. We are on track to complete the internal review this fall and the external review spring 2011. In the face of budget cuts, I sought to carefully use department budgets to insure that programs were maintained with the supplies and equipment needed. As an active participant, and currently President of the Society of Wood Science and Technology, I have been involved in programs to advance the profession of wood science and technology (SWST; Agenda 2020; National Research Needs Assessment (NRNA). I anticipate an increase in teaching workload as I will begin teaching the microscopy courses offered through the N.C. Brown Center for Ultrastructure Studies.

Self- I continue to develop leadership skills through the SUNY Leadership Program. I will attend the 2010 Annual Convention of the Society of Wood Science and Technology (SWST), October 11-15, in Geneva, Switzerland. I will serve as general program chair for the meeting which is to be held jointly with the United Nations Economic Commission for Europe Timber Committee (UNECE-TC) Annual Market Review.

Paul L. Crovella

Students– I worked to create a solid foundation for two areas of student interest and departmental growth: building information modeling, and sustainable energy systems. Along with new courses in each area, graduate research projects were developed in each to provide our graduate students opportunities and potential funding support. In conjunction with these efforts, I have proposed integrating a much increased lab component for the courses that I teach in the area of Building Science and Materials. A proposal for a new course in Engineering Materials was developed around a theme of exposing the students to lab-based understanding of the materials and methods needed for construction of high performance buildings.

Department/College – As our department reshapes in light of the closure of the Wood Products Engineering program, I have been trying to assist our department leadership with the transition to a larger “green” component in our remaining curriculum. Course development, curriculum modification, and opportunities for program collaboration are the foci of my efforts. I believe economic and environmental issues associated with the built environment (energy, deconstruction, IEQ) will continue to provide the department long-term growth potential. Our challenge will be to fit these opportunities in with the skill set of our faculty. I have been trying to develop relationships through CoE, SU Architecture, SU Civil and Mechanical Engineering to bring the department into new collaborations as it transitions toward a broader material and building science role.

Self – I have participated in approximately 12 days of professional development training and completed BPI Building Analyst and NAHB Green Verifier program training. I have completed the third of six major steps in my Ph.D. research and have continued development of my personal webpage.

Robert B. Hanna

I have maintained the fiscal viability of the Center for Ultrastructure Studies in the face of severe budget cuts and a poor economy.

Rafaat Hussein

To the President and/or Provost I could provide some understanding and observations at the department and the anticipated impacts.

George H. Kyanka

The 2009-2010 academic year was focused on the remaking of the CMWPE program/department. The loss of the Wood Products program led to intense scrutiny of the Construction Management major as the remaining undergraduate program. There were numerous meetings and reviews leading to a major curriculum restructuring.

The new program met with internal and external criticism and encouragement. The final product was presented to the College Curriculum Committee where it was approved. One CMWPE faculty member spoke against it and one ERFEG member did as well. Their comments were noted and the new curriculum passed with no other faculty dissent.

Getting the new program done was very difficult and time consuming for all CMWPE staff. The new program will bring CMWPE (now SCME) into closer alignment with other campus programs. The wood products history will be retained as an option. In retrospect, it needed to be done. The sense of urgency has passed and we now move on to making the new courses work and demonstrate the ability of our staff to adapt.

This was the issue in 2009-2010. Perhaps thinking of retirement was put to rest. The new program will require guidance and clear thinking to push it forward. The start for this effort was made and will continue.

Robert W. Meyer

I continue to set up the TTIC labs, and have moved materials from storage to the Tropical Timber Information Center laboratory. I have worked to re-establish the wood machining laboratory, and have obtained and set up equipment to expand research on use of wood carbon platforms for advanced composite materials.

Jennifer L. SmithWhat have you done this past year?

This past year, I have continued to develop and teach three courses (WPE 335, WPE455, and ERE 496). These courses have allowed me to: interact with students; learn how to manage relatively large numbers of students in a classroom setting (ranging from 15 to 38 students); learn techniques for helping students learn material and new concepts; and learn how to manage the development and delivery of a course. I am currently in the process of developing a new course, ERE 496 Site Investigations and Solutions, which will be offered in the fall of 2010.

I have continued to publish in my current research areas on soil erosion and rolled erosion control products (3 papers and 1 magazine article) and the filtration characteristics of geotubes for dewatering sediments (1 paper.) I am in the process of preparing a paper on the integration of social science and engineering for a Syracuse University Press publication later this year. I am also working on two papers on rolled erosion control products to be submitted to journals this summer.

I have been able to broaden my experience and collaborate with researchers both across the ESF campus and external to ESF (Syracuse University.) I have been working extensively with Dr. Sharon Moran on water sustainability. It is expected that a research proposal will be submitted in the fall of 2010. I also continue to work with Dr. Biljana Bujanovic on the development of natural-adhesive composites. Recently, a proposal submitted with Dr. Mark Driscoll on natural fiber composites was funded by the New York State Energy Research and Development Authority (NYSERDA.) With graduate student Scott Pullen, I am expanding my research on rolled erosion control products to include the use of forest materials and burned soils. I have also

collaborated with researchers at Syracuse University (Riyad Aboutaha, Shobha Bhatia, Mark Bomberg, and Ted Brown) on a research proposal on natural fiber composites.

I have also actively participated in department activities (curriculum committee, department meetings, lectures, etc.), which have allowed me to become a more active department member.

What have you done for students?

I continually strive to improve lectures, methods of delivery, and course content to meet the needs of my students. I have an open-door policy and try to assist students as needed. I try to make them aware of opportunities, such as scholarships etc., and services available to them at ESF.

What have you done for department/college?

I actively participate in department activities (curriculum committee, department meetings, lectures, etc.), which has allowed me to become a more active department member. I also attend on-campus and off-campus events, such as CSI and ACI meetings, to increase the visibility of the department and college

What have you done for yourself professionally?

Personally, I have made strides in collaborating with other researchers on campus. I am excited to be working with Drs. Sharon Moran, Biljana Bujanovic, and Mark Driscoll on new research initiatives that are allowing me to diversify and strengthen my research base. I have also been able to continue research make new collaborations with researchers at Syracuse University. I am also excited to have a graduate student working with me in the lab to further my research interests in soil erosion. I believe that these efforts will help me in the establishment of a strong research program in the future.

William B. Smith

I continue to provide advising and reference letters for students for employment, scholarships and graduate school. I continue to facilitate student travel to professional meetings and conferences, such as the New England Kiln Drying Association.

As our department continues with transition from CMWPE to SCM&E, I have been focusing attention towards our theme of Sustainable Construction and Renewable Materials. In the spring semester I co-taught WPE 422, both lecture and laboratory, covering physical and mechanical property characteristics of OSB, plywood, composite panels and engineered wood products. I also worked closely with a number of these students outside of class, who had questions and interest in a number of various wood products related areas, including wood processing, lumber, marketing, wood treatments, engineered wood products, and wood science. I have continued to work at bringing to our Construction Management curriculum building material, durability and performance content. I have continued work with FNRM faculty with regard to providing CMWPE Wood Products courses as directed electives for Forest Resource Management Students. I regularly attend and contribute during CMWPE Department, Advisory Committee and curriculum meetings. I continue to regularly participate in ESF and CM & WPE Open House programs, meet with alumni and other such visitors, and provide guest lectures to courses such as for Environmental Science first year students. I serve as Chair of the College Committee on Outreach and Public Service, American Wood Protection Association Technical Committees, and on the SWST Accreditation Committee.

Kenneth J. Tiss

The most significant thing that happened to me this year was the awarding of the ESF College Foundation Excellence in Teaching Award. This was totally unexpected and very humbling when I look at the other names whom have preceded me.

Continuing appointment was secured.

The successful completion of the Distance Education Management course was important to me as I plan to begin offering distance education courses in the next year to eighteen months.

I believe the annual report clearly communicates my efforts on behalf of the college and the department without further elaboration.

Appendix 3. 2010 Progress Report on the SCME Strategic Plan

Sustainable Construction Management and Engineering
July 2010 Progress Report on the SCME (CMWPE) Strategic Plan

The Department of Sustainable Construction Management and Engineering

July 2010

SUMMARY

This progress report uses two sections from the SCME (formerly CMWPE) Strategic Plan (February 2007) to illustrate our progress towards the goals developed during our visioning process and described in our five year plan. The first section is the Plan for Action that lists seven steps we are taking to achieve our goals. Although these were intended as initial steps, we are indicating our continued progress with these steps. The second section is Section 5.4, the Milestones to Measure our Success. Here we provide metrics as of July 2010.

Our undergraduate programs were changed significantly this past year. An administrative decision was made in July 2009 to eliminate the Wood Products Engineering program. The WPE program is no longer accepting new students and will continue until our current WPE students graduate. The WPE courses were developed into a concentration area for Construction Management (CM) students. This was submitted and approved by COI and the ESF faculty.

Significant curriculum changes were made to the Construction Management major. Six new courses were added to the requirements, four in the area of sustainable construction: Plan Interpretation and Quantity Takeoff, Sustainable Construction, Environmental Performance Measures, Sustainable Energy Systems in Buildings, Engineering Materials for Sustainable Construction and Building Information Modeling for Construction Managers. Course content for existing courses was updated to the new focus of the curriculum on sustainable construction and renewable materials: Applied Structures (formerly Timber Design); Renewable Materials for Sustainable Construction (Wood Structure and Properties). These changes were made in response a variety of groups; student surveys, alumni, the college administration, advisory board, and employers of our students.

To assist with the transition to our new program, an Advising Manual for Undergraduates in Construction Management was prepared in June 2010 and will be sent by email to students and faculty in mid-August for use during orientation and registration this fall. It will be posted on our webpage.

The SWST accreditation committee was notified of the changes to the WPE program, and accreditation of the WPE program will continue as long as we have students enrolled in WPE. We will pursue accreditation of the revised CM program with the WPE concentration in 2013.

The graduate program in ERE, that encompassed three departments, CMWPE, ERFEG and PBE, is being divided into three separate programs by department, pending state approval. Once approved, the new program in Sustainable Construction Management and Wood Science will have three options: Construction Management, Sustainable Construction, and Wood Science.

We were successful at obtaining funding for cross-departmental research, and we continue our plan to upgrading our research labs with the purchase of new equipment.

Our metrics indicate progress in most areas.

- Academic metrics indicate improvements in academic quality, and enrollment remains steady.
- Analysis of the number of undergraduate applications, number accepted and number enrolled shows significant increase in the number of applications to five times that of 2005, an increase of 21 to 98 applications.
- The number of accepted and enrolled students lags behind the number of applications.
- Graduate enrollment remains steady

- Research productivity remains steady with number of publications and number of proposals submitted. New research areas received support which should show an increase in research productivity over the next several years.
- New equipment was purchased for the Composites Lab
- Our Outreach offerings continue, and many of our faculty are engaged in professional organization activities.

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| Figure 2 Undergraduate enrollment in CM and WPE over the last three years by semester | 83 |

Update for December 2006 in black ink
Update for September 2007 in blue ink
Update for December 2007 in purple ink.
Update June 2008 red ink
Update May 2009 green ink
Update **July 2010**

Excerpt from the CMWPE Strategic Plan, February 2007:

A Plan for Action

There is significant work to be accomplished to achieve the vision that we have set out. As we go into further detail our future steps will become clearer. Our plan to achieve our vision is described in a series of bold steps listed in the following section and in greater detail in Appendix 1. The steps we are taking necessitate certain resources that are described at the end of this section. Milestones of our progress are included to assist us in staying on track achieving success.

A summary of the steps we are taking:

Step 1. Develop and implement a more integrated way for the department to work together more effectively by February 2007

Step 2. Develop an approved staffing plan by September 2007 for the next five departmental faculty positions for the years 2006-2011, and have two positions filled by September 2007

Step 3. Initiate two collaborative cross-departmental service courses and two cross departmental research initiatives by November 2007

Step 4. Update current programs for the catalog by January 2007; be ready to launch new program concentration areas for the catalog by January 2008, with support of the CMWPE Advisory Board.

Step 5. Develop a consistent marketing plan that increases program visibility and links with the finalized new program by January 2008

Step 6. Increase Research productivity by developing and submitting a green residential construction proposal by 5/07 and by producing 6 faculty research proposals during 2007[-08].

Step 7. Provide two new outreach offerings jointly with professional organizations (1 WPE and 1 CM by fall '07)

Our immediate action plans to accomplish our bold steps

For each bold step we developed charts that included primary objectives, secondary objectives, tasks and subtasks, success factors, challenges and the team and resources needed to accomplish each task. The full text from these charts is listed in Appendix 1. A summary of action items, particularly those that have been accomplished or initiated are described in the following section:

Step 1. Develop and implement a more integrated way for the department to work together more effectively by February 2007

- CMWPE Operational Organization, Policies and Procedures Handbook
 - draft has been distributed for approval by the CMWPE faculty in spring of 2007
 - The handbook was updated spring 2007
 - The handbook was updated June 2008 to include lab policies
 - The handbook was updated with new lab policies August 2008
 - Graduate Recruitment plan and Graduate Coordinator duties were added to the handbook in fall 2008
 - The handbook was updated spring 2009 to include Graduate Application Review Procedures
 - The undergraduate recruitment committee and Plan were added to the handbook

July 2010- The Handbook was updated June 2010 with changes to our department name, curriculum/program structure, and new curriculum and graduate program coordinators.

- Advising Handbooks-Drafts have been prepared for a CMWPE faculty advising handbook and a CMWPE student handbook. We will continue to write the handbooks, with documents to be completed by August 2007.

The documents are still in preparation; portions will be distributed prior to advising week. Advising procedures were sent to the students and faculty prior to advising and registration weeks.

Updated advising procedures and advising/registration announcements were sent to the faculty in November 2008. A method for monitoring accessory instruction courses at SU was developed and implemented for registration in November for spring 2009. Documents are provided to advisors each semester during the registration period. These need to be compiled into an Advising Handbook for Advisors and Students

July 2010. Advising Manual for Undergraduates in Construction Management was prepared in June 2010 by Susan Anagnost. It will be sent by email to students and faculty in mid-August for use during orientation and registration this fall. It will be posted on our webpage.

- Student Surveys
 - Freshmen survey-September 2006
 - General survey-March 2007
 - Exit survey for seniors- April
 - Freshman survey-September 2007
 - Exit Survey for seniors and follow up discussion with the Provost April 2008; part of our Outcomes Assessment Program
 - Freshman Survey Fall 2008
 - Exit Survey for seniors –April 2009
 - **July 2010- The Senior Exit Survey and discussion was held April 29 2010. The results are in the annual report.**

An on-line survey was administered to CMWPE freshmen and fall transfer students in September 2006. Question topics included how they found out about our programs, why they choose CMWPE, what were their views on sustainable construction and renewable materials, and if they would like to see those topics in our curriculum. A follow-up discussion with the freshmen was held as part of WPE 132 Freshman Orientation Seminar. A follow up discussion was held October 10 in WPE 132.

Dec. 5 2007: Much of the discussion focused on providing a supportive climate for students
Student feedback—

1. Visiting Instructors—student feedback and end of course evaluations are currently the only means for assessing visiting instructors. In the future we should sit on classes and review their teaching.
2. George Kyanka discussed the comments of the freshmen during the last class of WPE 132. They don't like

the fact that there are no CMWPE courses during the freshman year (other than WPE 132). We discussed providing a 1-credit seminar course or a 3 credit Professional Communication course during the spring semester.

3. George Kyanka also mentioned that several freshmen only took 12 credits this fall; failed to register for an elective and are now behind. Next fall we should make sure that they register for an elective and bring their total to 15 (or 16).

4. Several freshman and transfer students could not get into APM 153. Sue Anagnost will discuss this with the instructor. Since this is a required course, we need to insure that our students can get in the class. There is also the possibility that we could change the requirement for this course. This needs to be discussed further at the curriculum committee level. There was a discussion about the appropriateness of APM 153 for our students. This needs further discussion.

Seniors April 2008 - A separate document is attached on the senior exit survey of April 2008 and student discussion with Provost Bongarten.

Freshman – Fall 2008 - The survey was administered

Seniors - April 2009 the results will be used for outcomes assessment and our curriculum review process. The results are available in a separate document.

July 2010- The Senior Exit Survey and discussion was held April 29 2010. The results are in the annual report. The results are part of our Outcomes Assessment Program.

Step 2. Develop an approved staffing plan by September 2007 for the next five departmental faculty positions for the years 2006-2011, and have two positions filled by September 2007

- A staffing plan for 2006-2011 that will define five faculty positions and fill two by September 2007. This plan is described in detail in Appendix 2.

We are currently searching for two positions:

Assistant/Associate Professor in Sustainable construction

Assistant/Associate Professor in Construction Management to replace Dr. Kim

Our future searches will include replacements for retiring faculty members to cover engineering, microscopy and building materials

Update Dec 5 2007:

- Dr. Jennifer Smith will start February 1 2008
- The search committee for an Instructor will meet Dec. 12th
- A search will be initiated soon for a replacement for Bob Hanna who is retiring September 12 2008.

Update June 2008:

- Dr. Jennifer Smith started February 1 2008
- Paul Crovella was hired as an Instructor and will begin August 14, 2008

Update May 2009:

The department recognizes the need for additional faculty in critical area such as composite products, but no further action was taken

July 2010

No update

Step 3. Initiate two collaborative cross-departmental service courses and two cross departmental research initiatives by November 2007

- Inter- and Intradepartmental collaboration of coursework offerings
- Two pre-proposals were submitted to Dr. Ringler; Renewable Wood Products and Sustainable Residential Construction for Urban Revitalization.

A seed grant that involves collaboration within our department and with other departments will be submitted October 1 Sustainable Residential Construction for Urban Revitalization. This is on hold until we hire new faculty.

Update Dec 5 2007:

- Our existing service courses with ERFEG and PBE were discussed. The three department chairs (Anagnost, Scott and Hassett) have discussed setting up a meeting to try to make our undergraduate courses that have some overlap, more efficient in the way they are taught. There is no immediate plan for this, but it may develop in the next year or so.
- Should we develop an undergraduate microscopy course that could serve the entire campus?
- Suggestion that we contact David Newman from FNRM to see if we can offer courses for their students.
- If we develop a freshman-level Professional Communications or Professional Applications course, could this be a service course?

Update May 2009:

- The course "Introduction to Professional Communications" was developed by Bob Meyer spring 2008; it was submitted to COI for approval as a new course to replace APM 153 as the computer programming requirement for CM and WPE. It was also submitted to Gen Ed for approval as a Gen Ed course in basic communications.
- FNRM has changed their requirements for the Forest Resources Management program and is now requiring one technical elective from wood technology/science. The elective is chosen from WPE 387, WPE 404, WPE 444 and WPE 400
- Jennifer Smith was Co-PI on a research proposal with Biljana Bujanovic in the Paper Science department to study lignin-based adhesives for composite materials
- The CMWPE department is participating in a cross-departmental proposal to NSF-CCLI program to provide support for international students to improve language skills

Update July 2010:

Ten cross-departmental research proposals were submitted (see Annual Report).

Three were successful:

Abrams, Neal and S.E. Anagnost. Biomass Blueprints: Constructing Photocatalysts from Cellulosic Templates, Seed Grant, SUNY College of Environmental Science and Forestry, 3/1/2010 to 6/30/2011. \$7,577.00

Smith, J.L., and Driscoll, M., "Radiation-Cured Natural Fiber Reinforced Composites," New York State Energy Research and Development Authority (NYSERDA), Ultraviolet Light and Electron Beam Process Innovation and Market Transformation, PON 1641, \$75,000.

Germain, R. and W.B. Smith. The New York Forest Community Economic Assistance Program – "Circuit Rider" proposal, \$100,000 Appropriations for SUNY ESF from Congressman McHugh and others through Dr. M.O. Fellows and Dr. C.B. Murphy; Dr. W.B. Smith provided support letters from industry, background information and program details. The funding obtained was reduced from the originally requested \$500,000. The project is from September 1, 2010 to August 31, 2011. The project is being administered and carried out and by Dr. W.B. Smith and Dr. Rene Germain (FNRM) as co-Principle Investigators.

Step 4. Update current programs for the catalog by January 2007; be ready to launch new program concentration areas for the catalog by January 2008, with support of the CMWPE Advisory Board.

□ Curriculum updates and Catalog revisions

- By February/March 2007

CM and WPE curriculum committees have met and are proceeding to submit changes to COI in February 2007.

- Spring and Fall 2007

We will continue to develop the sustainable residential construction concentration for submission to COI by February 2008, for the program to begin Fall 2008. Curriculum updates and catalog changes were approved by COI, April 2007. New proposals to be submitted fall 2007 and spring 2008 include:

- **New concentration area in Sustainable Construction and Renewable Materials for CMWPE students (see new catalog description) passed by COI November 2007; Approved 2007-08; 2008-09: three new courses developed,; Sustainable Construction, Environmental Performance Measures; Energy in Buildings; BIM course (1 credit) will be offered spring 2010; By February 2010 existing experimental courses (496, 596) will be submitted to COI for approval as courses in our curriculum**
- **New minor in sustainable construction Very likely that COI will approve Dec. 10 2007; Approved 2007-08**
- **Possible new minor in renewable materials next year depending on new faculty**
- **Possible certificate program in Sustainable Construction and Renewable Materials possibly for COI action in 2008-but will probably require evening classes which could be problematic. This needs to be investigated.**
- **WPE 444 Materials Marketing was approved as an elective for the three minors in business management**
- **WPE 202 Introduction to Professional Communications was approved by the ESF faculty as a new course. It is a required course for both programs.**
- **Both curriculum committees have met and are reviewing their curriculum. A combined meeting of the two committees will be held on May 12, 2009**
- **The WPE curriculum committee sent out a survey April 30, 2009 to employers (actual or potential) of WPE graduates to ask their opinion of our current program and what changes they would suggest for improving employment opportunities for our students.**
- **The department should investigate the market for certificate programs, specifically the needs in the local community**

July 2010. Our undergraduate programs were changed significantly this past year. The WPE program is no longer accepting new students and will continue until our current WPE students graduate. The WPE courses were developed into a concentration area for CM students. This was submitted and approved by COI and the ESF faculty.

Requirements for the Construction Management program were changed to include six new courses four in the area of sustainable construction:

**Plan Interpretation and Quantity Takeoff
Sustainable Construction
Environmental Performance Measures
Sustainable Energy Systems in Buildings
Engineering Materials for Sustainable Construction
Building Information Modeling for Construction Managers**

Course changes:

**Applied Structures (formerly Timber Design)
Renewable Materials for Sustainable Construction (Wood Structure and Properties)**

These changes were made in response a variety of groups; student surveys, alumni, the college administration, advisory board, and employers of our students.

- Graduate Program curriculum revisions
 - Graduate MPS degree in Green Construction-proposal is under development-on hold
 - Change ERE section of catalog to reflect MS topic areas of Sustainable Construction and Renewable Materials .-in progress, still in progress spring 2009
 - Spring 2009- ERE has voted to change the name of the ERE program to EAS-Engineering an Applied Science. This will be brought for campus-wide approval in 2009-2010
 - Other actions within ERE are proposed; such as changing course prefixes to be department specific.
 - Susan Anagnost attended the SUNY Workshop on the Professional Science Master's program on March 26. SUNY-ESF is one of 13 SUNY campuses that have received funding from the Sloan Foundation to develop PSM programs. Susan Anagnost and Ken Tiss are on ESF's PSM program committee which will be working to develop PSM programs at ESF.
 - The department should address the need to update the "areas of study" in the CMWPE option of the graduate program

July 2010 The graduate program in ERE, that encompassed three departments, CMWPE, ERFEG and PBE, is being divided into three separate programs by department, pending state approval. Once approved, the new program in Sustainable Construction Management and Wood Science will have three options: Construction Management, Sustainable Construction, and Wood Science.

□ Advisory Board

Twelve persons were contacted to request their participation on the CMWPE Advisory Board. We plan to meet with them two times per year with the first meeting in the spring of 2007.

The composition of our Advisory Board is:

| | |
|---------------------|--|
| Richard Ahearn | Ahearn Holtzman |
| Dr. Samuel Clemence | Syracuse University, Civil Engineering |
| Ronald Kenyon | Syracuse City School District |
| Kevin King | ESFPA |
| Jake McKenna | Parsons-McKenna Construction |
| Vince Nicotra | QPK Design |
| James Ruddock | Onondaga Community College |
| Kevin Stack | Northeast Natural Homes |
| Glen Stahl | Rochester Lumber Company |
| Richard Ziobro | Osmose |
| Russ Howe | Trus-Joist (Weyerhaeuser) |

We are seeking a replacement for Chris Miller.

Our last meeting was held June 14th (minutes attached), and our next meeting is planned for early December.

Meetings were held December 12, 2007 and June 4, 2008

A meeting was held January 23, 2009 and the next meeting is May 20 2009

July 2010

Three members of our Advisory Board resigned.

The composition of our Advisory Board is:

| | |
|-----------------------|--------------------------------------|
| Ronald Kenyon | Syracuse City School District |
| Jake McKenna | Parsons-McKenna Construction |
| Vince Nicotra | QPK Design |
| James Ruddock | Onondaga Community College |
| Kevin Stack | Northeast Natural Homes |
| Glen Stahl | Rochester Lumber Company |
| Richard Ziobro | Osmose |
| Russ Howe | Trus-Joist (Weyerhaeuser) |

Step 5. Develop a consistent marketing plan that increases program visibility and links with the finalized new program by January 2008

- Recruiting- We have initiated the development of a plan for recruiting by meeting with Dr. Robert French and Susan Sanford.

Undergraduate Recruiting plans:

Plans generated at Admissions in Service and subsequent department meetings (attached)

Undergraduate recruitment plan has been developed and recruiting will be the priority for the upcoming year.

The recruitment committee, Susan Anagnost, Ken Tiss and Bill Smith met in August 2008 to review the recruitment plan and make plans for recruiting for the year 2008-2009. Each member of the committee was to visit schools this year. S. Anagnost communicated with Orange CCC and Monroe CC but was unable to find dates agreeable to both. Ken Tiss visited Erie CC in March 2009.

The undergraduate recruitment plan and graduate recruitment plan were added to the CMWPE Policy and Procedures Handbook.

Ken Tiss and Beth Minard plan to visit Monroe CC and OCC in August 2009

The CMWPE Advisory Board is concerned that college wide admissions policies may be affecting enrollment in CMWPE; that as a small department, college-wide cutbacks on the number of students they will accept students affect CMWPE to a greater extent than larger departments. (However, more recent data indicate that the number of applicants and percent accepts is really not much different from prior years.)

Graduate Recruitment plan:

Each department at ESF was asked to develop a Graduate Recruitment Plan. The CMWPE Graduate Recruitment Plan was developed in the Fall of 2008

July 2010 Paul Crovella and Susan Anagnost will work with Beth Minard fall 2010 to update articulation agreements to our new curriculum; and Admissions will work to develop new, curriculum specific articulation agreements with several of our major transfer schools.

- Website development

We have requested from Dr. French that our department be given a priority when the departmental web-pages are updated this year.

Dr. French has agreed to this.

Department web pages have been updated

Web-pages continue to be updated. Paul Crovella is coordinating efforts for the department. All faculty members that would like to update their web pages can install Adobe Contribute on their computers to assist with their personal web page development. Paul is developing a webpage for the Sustainable Construction and Renewable Materials concentration, with photos and video clips of students, class projects and field trips.

July 2010 The website was update to include recent changes, the new department name, the program changes (no longer accepting WPE students, and the new courses and curriculum. We are working to add web pages on the Sustainable Construction, the WPEL lab and department activities.

- SWST accreditation-submit program changes for approval by SWST. The changes will be submitted in the Annual Report requested by SWST each February.

The curriculum changes approved in the spring 2007 will be submitted to SWST February 2008. Curriculum changes were submitted to SWST February 2009. The CMWPE Annual Report to SWST was approved by the SWST Accreditation Committee

July 2010 The SWST accreditation committee was notified of the changes to the WPE program, and accreditation of the WPE program will continue as long as we have students enrolled in WPE. We will pursue accreditation of our new program with the WPE concentration in 2013.

- ACCE accreditation- CM will continue to pursue ACCE accreditation.

The possibility of pursuing ACCE accreditation is on hold pending curriculum review
July 2010 no update

□ Join CORRIM (*The Consortium for Research on Renewable Industrial Materials*)

A request was made to the SUNY-ESF Administration to join CORRIM

This was approved by President Murphy and Provost Bongarten in October 2007

We are now a member of CORRIM. Susan Anagnost and Bill Smith attended the CORRIM board meeting in June 2008. Bruce Lippke, president of CORRIM, spoke at ESF as part of the CMWPE Speaker Series. He met with President Murphy and Provost Bruce Bongarten.

Susan Anagnost and Bill Smith attended the CORRIM meeting in June 2008 in St. Louis MO. The CORRIM meeting was held in conjunction with the Forest Products Society and SWST annual meetings.

Susan Anagnost was selected for the nominating committee to select a new president for CORRIM, select vice presidents and determine the structure of the CORRIM executive board (May 2009).

July 2010 Robert Meyer attended the CORRIM Board meeting in June 2010 in Madison WI.

Step 6. Increase Research productivity by developing and submitting a green residential construction proposal by 5/07 and by producing 6 faculty research proposals during 2007[-08].

□ Wood Engineering Lab Certification.

The pending approval of the proposal for certification of the laboratory will provide testing services for industrial clients, certified testing for research and will help to market our capabilities.

The WPEL was designated as an accredited laboratory by the IAS, February 2008

A design for a webpage on the WPEL is in progress.

April 2009- Visit by IAS for the one year review. The recommendation was to renew IAS accreditation for a period of two years. Lab policies were developed in the summer of 2008 and approved in the fall of 2009.

The policies were updated in April 2009 in response to a request from IAS for clarification of the management procedures for lab projects.

Contract projects support lab maintenance, equipment purchases, and accreditation

- Research Grant Proposals. Research proposals will be submitted by faculty members with a goal of 6 proposals submitted during 2007.
- Two pre-proposals were submitted December 1 2006 to Dr. Neil Ringler, Dean of Research:
 - -"Use of Non-Traditional Sources of Wood for Sustainable Building Materials and Furniture, and Green Construction Applications" and
 - -"Sustainable Residential Construction for Urban Revitalization"
 - Two pre-proposals were submitted by Robert Meyer with co-PIs Scott and Lai of PBE
 - -"New Analytical and Imaging Technologies for Lignocellulosic Material Degradation, for Multiplexed Screening for Plant Phenotypes."
 - -"New Analytical and Imaging Technologies for Lignocellulosic Material Degradation, for Multiplexed Screening for Plant Phenotypes "
 - One proposal was submitted by Susan Anagnost December 2006 to COEES for the CARTI program, "Membrane-based DNA technique to simultaneously detect opportunistic, pathogenic and wood-decay fungi in buildings" by Susan Anagnost, Shuang Zhou and C.J.K. Wang. Funding was received for one year May 2007-April 30 2008; Andrew Newhouse was hired as a technician. The grant was extended to April 30 2009. A manuscript is in preparation.
 - Bill Smith submitted a proposal in February 2007 to WERC.
 - A proposal "Application and Demonstration of Macroarray Analytical Techniques for the Detection of Fungal Bioaerosols in Buildings" was submitted by Environmental Services Laboratory July 2007, with S.E. Anagnost as Co-PI under subcontract. The proposal was funded for the full amount for the period January 2008-December 2008. This proposal was funded. The grant was extended to April 30 2009.
 - ESF Seed grants and Travel grants to be submitted October 1, 2008
 - Ken Tiss-travel grant-February 2008
 - Jennifer Smith was awarded a Travel Grant fall 2008
 - Susan Anagnost was awarded a travel grant in fall 2008
 - Jennifer Smith submitted a seed grant January 2009
 - McIntire-Stennis pre-proposals to be submitted by October 5th- two were submitted from CMWPE but requests were not received to submit a full proposal.
 - Robert Meyer submitted a proposal to support the research of Jason Guiles, November 2007
 - We should investigate the possibility for earmark funding in the area of sustainable construction and renewable materials
 - Susan Anagnost and Bill Smith attended the National Research Needs Assessment workshop in St. Louis MO, June 25, 2008. SWST and ASCE are joining forces to develop a white paper for legislators, to promote the need for wood utilization research. Susan Anagnost submitted the section on Building Systems for inclusion in the NRNA document, April 2009. The final document is being prepared by the SWST Research Initiatives committee, with the development of white papers to follow.
 - Jennifer Smith submitted a proposal with Paper Science faculty
 - Jennifer Smith submitted a Seed Grant
 - Paul Crovella submitted a letter of inquiry to NAHB's HELP grant program
 - Paul Crovella and Susan Anagnost submitted a proposal to NYSERDA
 - Robert Hanna and Rob Smith submitted two proposals, one to McIntire-Stennis, the other to NSRC.

- Ken Tiss, Scott Shannon are co-PIs on a proposal to the State Dept. of Agriculture and markets for green improvements to buildings at the State Fair. The grant is COW2Food-Sustainable Distributed Agriculture. Amount: NYSERDA \$72,622, ESF/Co Funding \$75,461; Total \$148,083. Jennifer Smith and Paul Crovella are also working on the project. The proposal was funded
- Ken Tiss is a Co-PI with Dave Johnson, Stuart Dimont and Emmanuel Carter on a proposal submitted to NYSERDA.
- Ken Tiss received a grant from AGC for educational equipment.
- Bill Smith contributed to the College's effort to obtain a federal appropriation for the New York Forest Community Economic Assistance Program. The request has been brought to the US House of Representatives and is now in the US Senate
- The college-wide proposal to the Sloan Foundation to develop a Professional Science masters program was submitted and approved. Susan Anagnost and Ken Tiss are co-PIs along with 5-6 others at ESF.

July 2010 Ten proposals were submitted (see annual report); three were funded:

Abrams, Neal and S.E. Anagnost. Biomass Blueprints: Constructing Photocatalysts from Cellulosic Templates, Seed Grant, SUNY College of Environmental Science and Forestry, 3/1/2010 to 6/30/2011. \$7,577.00

Smith, J.L., and Driscoll, M., "Radiation-Cured Natural Fiber Reinforced Composites," New York State Energy Research and Development Authority (NYSERDA), Ultraviolet Light and Electron Beam Process Innovation and Market Transformation, PON 1641, \$75,000.

Germain, R. and W.B. Smith. The New York Forest Community Economic Assistance Program – "Circuit Rider" proposal, \$100,000 Appropriations for SUNY ESF from Congressman McHugh and others through Dr. M.O. Fellows and Dr. C.B. Murphy; Dr. W.B. Smith provided support letters from industry, background information and program details. The funding obtained was reduced from the originally requested \$500,000. The project is from September 1, 2010 to August 31, 2011. The project is being administered and carried out and by Dr. W.B. Smith and Dr. Rene Germain (FNRM) as co-Principle Investigators.

□ **Research Facilities**

- The department is reviewing its facilities and developing plans for purchasing equipment and receiving donations for equipment to support new areas of research and to upgrade outdated equipment

July 2010

- **Purchased a Carver press for the Composite Materials lab**
- **Plan to rehabilitate the old Carver Press in the Composite Materials lab**
- **The department is reviewing lab use for instruction and research, with a goal of providing facilities equipped for lab instruction for our new curriculum, and to support our research programs.**

Step 7. Provide two new outreach offerings jointly with professional organizations (1 WPE and 1 CM by fall '07)

☐ Conferences and Workshops

- Kiln-drying Workshop, January 9-12 2008
- Green Building Conference March 27-28 2008
- Conversations in the Disciplines: Sustainable Construction: A Perspective to the year 2013, March 7 2008
- Kiln Drying Workshop January 5-8, 2009
- Green Building Conference March 19-20, 2009

July 2010

- **Kiln Drying Workshop January 2010**
- **Green Building Conference March 2010**

☐ Speaker Series

- one speaker-spring 2007
- one speaker fall 2008

We are planning to a Speaker Series in Sustainable Construction and Renewable Materials. Bruce Lippke, President of CORRIM; and Wayne Trusty, President of Athena, have agreed to speak. The W. A. Côté Lecture Series will co-sponsor an additional speaker. We are contacting others.

The speaker series for spring 2008 has been planned. It includes talks by James Bowyer on January 24, Wayne Trusty on February 7th and Bruce Lippke on April 17. The Cote lecture series is on hold and may be changed from a lecture series to a different function to allow the funds to be sustainable.

Jim Bowyer's visit-we should plan his itinerary for January 24th. Bob Meyer would like him to attend his Rating Systems class at 8:00 am.

We should announce the speaker series via emails to the ESF campus, our Advisory Board, local Alumni, and professional groups such as:

NRLA, ESFPA, Northern Logger, Emerging Green Builders, attendees of Green Bldg. Conf., Home builders Assoc., GBC, USGBC (Tracy Hall), Diane Brandli

The Speaker Series on Sustainable Construction and Renewable Materials in 2007-08 was very successful.

The Speaker Series for 2008-09 included:

- Peter Moonen, December 3, 2008
- Eileen Clinton, March 5, 2009
- Bruce Brownell, April 17, 2009

Potential speakers for 2009-2010: Names suggested at the Advisory Board meeting in January were Matt Klucznik, Kevin and Josh Stack, Jake McKenna

July 2010 September 2009- Matt Klucznik

Measurements of our Progress

Section 5.4 from our Strategic Plan (p. 30) was developed to track our progress on achieving the goals set forth in our strategic plan. The original document included the headings and solid bulleted items shown below. The results we have achieved as of July 2010 are so indicated and shown in bold italics. In cases where amendments were made to our original goals they are delineated in brackets.

Milestones to measure our success

We have set target metrics for 2012 to measure our success. Administrative investment in the CM & WPE programs should facilitate us meeting these goals:

Academic metrics

Student quality

- A majority of our students will be tier 1 and tier 2 level students
 - 2009 *We have attracted tier 1 and 2 students*
 - **2010:**
 - *Freshman SAT scores ranged from 930 to 1250; 4 > than 1000*
 - *Transfer GPA at transfer schools ranged from 2.5 to 3.8:*
 - 6 with GPA between 2.5 and 2.9*
 - 7 with GPA between 3.0 and 3.4*
 - 2 with GPA between 3.5 and 4.0*
- Our program will attract freshman applying for the lower-division Honors program
 - 2009 *ESF cancelled the lower division honors program.*

Enrollment

- Increase the size of our freshman class so that one-half of our students enter as freshmen and one-half enter as transfers
 - *Fall 2008: 6 Freshman, 16 transfers*
 - *Spring 2009: 5 transfers*
 - *Fall 2009: 3 Freshman; 13 transfers*
 - ***Spring 2010: 7 transfers***
 - ***Fall 2010: 5 Freshman and 16 transfers***
- By 2012 there will be approximately ~~160~~ 120 students in CMWPE with about ~~120~~ 95 in Construction Management and ~~40-25~~ in Wood Products Engineering [numbers amended May 6 2009] [Wood Products Engineering program eliminated July 2009]
 - *2009 Enrollment appears to be steady for 2009-2010 (Table 1)*
 - *The program is attracting a large number of applicants.*
 - *2008-09 The number of applicants for CMWPE was 78 plus 7 rolled over from last semester/year for a total of 85 applications for fall 2009 (compared to 76 for 2008). Of these, the number accepted was 30, or 35%. Of these 30 accepted students, 16 (53%) have enrolled as of May 13 2009.*
 - ***2009-10. The number of applicants for CMWPE was 85 plus 13 rolled over from last semester/year for a total of 98 applications for fall 2010 (compared to 85 for 2008(Figure 1)). Of these, the number accepted was 30, or 31%. Of these 30 accepted students, 21 have enrolled (70% of accepts; 21% of applicants).***
 - *Many prospective students as well as current students indicate in student surveys and during advising that they are interested in the concentration in Sustainable Construction and Renewable Materials. We expect this new academic focus to continue to attract students in greater numbers.*
 - *Possible factors that affect the yield:*
 - *Students apply to many schools*

- *Economic factors such as the housing deposit for SU housing which is due at the same time as the ESF deposit*
- *We need to look at retention as well as enrollment; and possibly track students who leave and finish later*

Update July 2010:

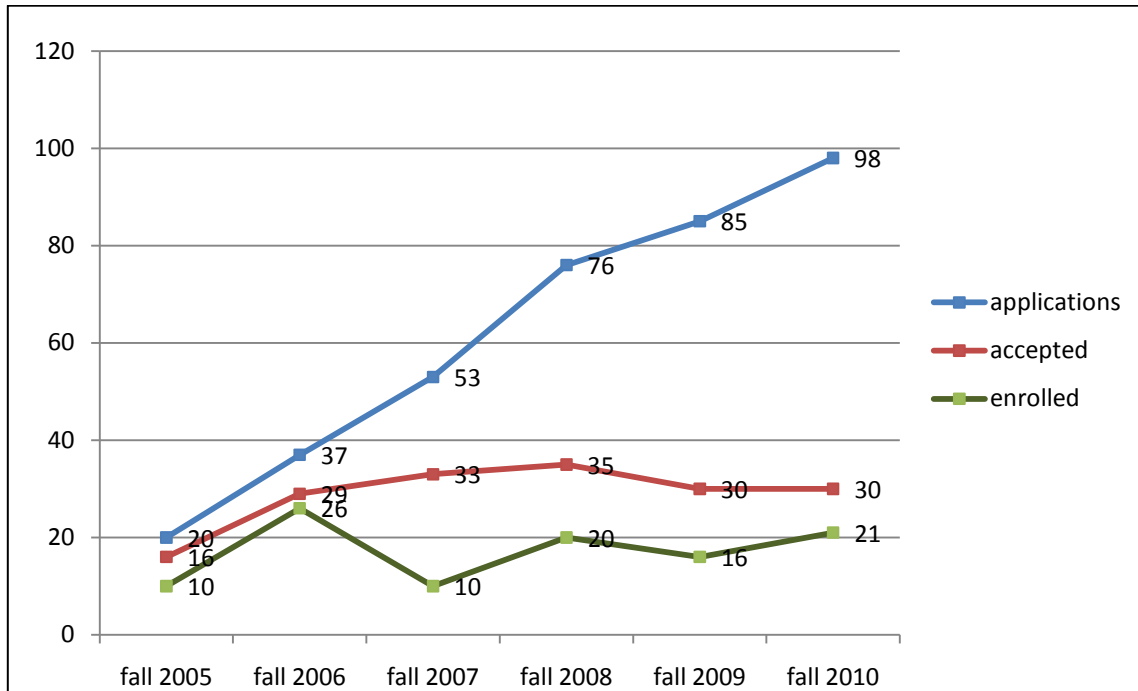


Figure 1 Fall Enrollment Trends. The numbers include freshmen and transfers; data excludes spring semester transfers

Update 2009-2010

The number of applications has increased by a factor of five over that of five years ago (fall 2005); the number of accepted students increased slightly then has leveled off at 30; the number enrolled has increased (two times that of 2005) but lags compared to the number of applications. It is not clear why the number of accepts has remained flat while the number of applicants has increased, although the total number of applications to the college also increased.

Table 1. Undergraduate enrollment figures for CMWPE. Enrollment is affected by graduation, enrollment of transfer students each semester and freshmen every fall, internal transfers into or out of the department, students who withdraw from the program, and students who are suspended, or return after probation.

| TERM | UNDERGRADUATE ENROLLMENT | | |
|--------------------|--------------------------|------------|-------------|
| | CM | WPE | TOTAL |
| Spring 2007: | 77 | 15 | 92 |
| Fall 2007: | 76 | 9 | 85 |
| Spring 2008: | 77 | 8 | 85 |
| Fall 2008: | 74 | 7 | 81 |
| Spring 2009: | 69 | 3 | 72 |
| Fall 2009*: | 73 | 2 | 75* |
| Spring 2010 | 82 | 4 | 84 |
| Fall 2010 | 73 | 4** | 75** |

*based on numbers posted on May 13, 2009

**Two students are double majors in CM and WPE

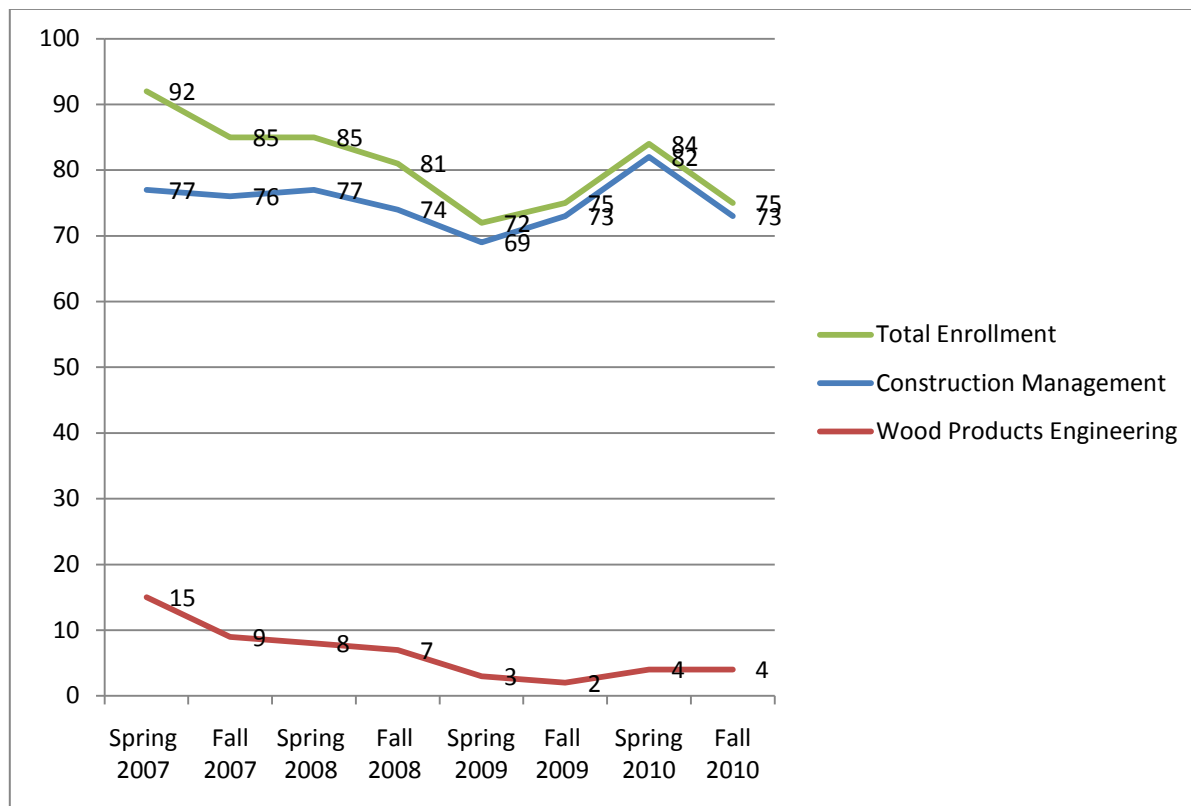


Figure 2 Undergraduate enrollment in CM and WPE over the last three years by semester

- Graduate enrollment will increase in both programs to about 40 students
 - 2009 Graduate enrollment is steady with 16 students enrolled for 2008-2009 Number of graduate student by degree program 2008-09:
 - MPS: 5
 - MS: 6
 - PhD: 5
 - Expected Enrollment for 2009-2010 is 16.
 - MPS: 4 (1 new; 2 graduated May 2009)
 - MS: 7 (2 new; 1 will graduate August 2009)
 - PhD: 5
 - Expected Enrollment for 2010-2011 is about 17.
 - MPS: 3 (1 graduated May 2009)
 - MS: 9 (2 new; 1 graduated December 2009)
 - PhD: 6 (1 new)

Fall 2009 We received 14 graduate applications; 7 were accepted, 4 of these enrolled; 5 were rejected; 2 incomplete.

2009-10 through 2010-11- We are changing our graduate program options and areas of study and will monitor any effects on enrollment

Employment after Graduation [added May 2009]

- Placement data
 - 2007-08 ESF Placement Data from http://www.esf.edu/career/documents/Report_2008-Final_.pdf
 - Of the 15 respondents, 14 were employed upon or within 3 months of graduation
 - Of 11 salary respondents, the average salary was \$50,500; range \$40,000 to \$91,500
 - One attended graduate school
 - 2008-09 ESF Placement Data (data provided Spring 2010 by Office of Student Life in the 2009 Graduating Student Survey)
 - Of the 22 respondents, 17 were employed upon or within 3 months of graduation
 - For the 9 salary respondents, the average salary was \$43889; range \$34,000 to \$48,000
 - Four were attending graduate school

Faculty

- Ten tenure-track or tenured faculty members
 - 2009-Two faculty members were hired in 2008 for a total of 9 faculty members in CMWPE. From 2006 to 2008 we had 7 faculty members as a result of Dr. Leonard Smith's retirement and Dr. Kim's leaving for another institution. We put in a request to the ESF Administration with support from the CMWPE Advisory Board, for a 10th faculty position, but no action has been taken.
- Visiting Instructors to support key areas (amended May 6, 2009)
 - 2009-CMWPE has 4 Visiting Instructors teaching 4 courses. Light Construction is no longer taught by a Visiting Instructor but is taught by our newest faculty member, Paul Crovella. We would like to resume offering one course, Mechanical Electrical and

Plumbing Codes taught in spring 2007. We are considering offering a course on risk assessment that would require a Visiting Instructor.

- *As we review and revise our curriculum we will need to determine whether our curriculum will need additional support from Visiting Instructors*
- An Endowed Chair in CMWPE
 - *2009-There has been no action on this item*

Accreditation

- The Wood Products Engineering Program will continue to be accredited by the Society of Wood Science and Technology (SWST)
 - *Current SWST accreditation is through 2013*
- The Construction Management Program will be accredited by the American Council of Construction Educators (ACCE) by 2008
 - *ACCE accreditation is on hold pending curriculum review*

Research metrics

Funding

- A minimum of 1 grant proposal / year / faculty member (on average) will be funded
 - *2006-2007 number of proposal submissions: 6; 1 funded*
 - *2007-08 number of proposal submissions: 3 submitted ; 1 funded*
 - *2008-09 number of proposal submissions: 13 submitted; 3 funded; 10 not funded;*
 - *2009-10 number of proposal submissions: 13 submitted; 3 funded; 7 not funded;3 pending*
- Annual research budgets will total \$500,000 for both programs
 - *2006-07 Our annual research budget was \$334,626*
 - *2007-08 Our annual research budget was \$313,544*
 - *2008-09 TBD data pending from the Office of Research Programs in June for the Annual Report*
 - *2009-10 Our annual research budget was 157,000*

Publications

- Two peer-reviewed publications / year / faculty member (on average)
 - *Data from annual reports:*
 - *2006-07 16 publications for 8 faculty 2 per faculty*
 - *2007-08 9 publications for 8 faculty 1.1 per faculty*
 - *2008-09 8 publications for 9 faculty 0.9 per faculty*
 - *2009-10 8 publications for 9 faculty 0.9 per faculty*

Presentations at Professional Conferences [amended May 2009]

- *2006-07 8*
- *2007-08 8*
- *2008-09 6*
- *2009-10 2*

Research Facilities [amended May 2009]

- **Plans to equip new laboratories and to upgrade research facilities in the renovated laboratories in Baker lab**
 - *Equipment was purchased in 2008 for the machining lab to support the research and teaching activities of the Wood Products Engineering Laboratory*
 - *Equipment was donated for the Construction Safety Lab*
 - *Plans are underway to purchase equipment for the Composites Research Lab and the Building Materials Research Lab.*
 - *2009-2010 In June 2010 the department purchased a Carver press for the Composites Lab; we are investigating the rehabilitation of the larger press in the lab and will likely upgrade this press. There is a proposal pending for a Center for Adhesives, Composites and Coatings (Mark Driscoll and Jennifer Smith) which will likely use the Composites*

lab for some of its research activities. Jennifer Smith has installed geotech equipment in the Composites research lab; proposals are pending from the faculty to use department funds for purchasing other equipment (rehab of press, field emission scanning electron microscope, x-ray densitometer)

Outreach metrics (Outreach offerings by the department)

Technology transfer

- *Wood Utilization Service*
- *Tropical Timber Information Center*
- *Center for Ultrastructure Studies*
- *Presentations at other outreach events*

Funded Lab Projects for Industrial Groups

- *Wood Products Engineering Lab*
- *Center for Ultrastructure Studies*

Workshops

- *The Kiln Drying Workshop continues each year.*
- *No new workshops have been offered*
- **Speaker series** Goal: ~~Four speakers per semester~~ Three to four speakers per year; 1-2 per semester [amended May 6, 2009]
 - *For the academic year 2007-08 we hosted three speakers, James Bowyer, Bruce Lippke and Wayne Trusty*
 - *For the academic year 2008-09 we hosted three speakers, Peter Moonen, Eileen Clinton, and Bruce Brownell*
 - *For the academic year 2009-10 we hosted one speaker, Matthew Klucznik, QPK Design*
- **Conferences**
 - *Green Building Conference 2007, 2008, 2009, 2010*
 - *Conversations in the Disciplines March 2008*