Annual Report

Department of

Sustainable Construction Management and Engineering

Academic Year 2010-2011

Susan E. Anagnost
Chair and Associate Professor

July 20, 2011

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

http://www.esf.edu/scme/
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Introduction

Highlights of the year 2010-2011:

• Implementation of the revised Construction Management curriculum began with the freshman class of 2014 (entering fall 2010) and the transfer students that enrolled in January 2011.

• The department is in the process of a self study for SUNY to be completed 2010-11. The internal review was completed December 2011 and was sent to the Associate Provost. It is expected that the external review and final document will be completed during the fall 2011 semester.

• A selected group of Construction Management seniors and juniors participated in the AGC Regional (Division 1) Student Competition with faculty advisor Ken Tiss. The competition was held in November 2010 in New Brunswick, New Jersey.

• Professor Robert B. Hanna retired effective December 23, 2010 after 33 years of service to the college. Dr. Hanna was Professor in Wood Products Engineering and Director of the N.C. Brown Center for Ultrastructure Studies.

• Susan Anagnost was appointed Director of the N.C. Brown Center for Ultrastructure Studies

• Robert P. Smith was appointed Assistant Director of the N.C. Brown Center for Ultrastructure Studies

• Paul Crovella received Continuing Appointment as Instructor.

• Jennifer Smith and Mark Driscoll received two grants from the New York State Energy Research and Development Authority (NYSERDA): “UV/EB Technology Center” ($989,984) and “Radiation-Cured Natural Fiber Reinforced Composites” ($75,000)

• Our department Secretary, Judy Barton, was the 2010 recipient of the SUNY Chancellor’s Award for Excellence in Classified Service

• Outreach Activities:
  o Kiln Drying Workshop, January 2011; William Smith
  o Construction Career Day, October 2010, Syracuse, NY; Ken Tiss served on the planning committee for the fourth year. The department also participated with a booth attended by Susan Anagnost and William Smith
  o Green Building Conference, March 2011; Robert Meyer, Paul Crovella and Judy Barton; SCME/ESF booth at the Green Building Conference; Susan Anagnost and Paul Crovella
  o The 21st Annual Balsa Bridge Competition was held April 8, 2011. 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
  o Participation in the Careers in Construction Day for high school students at Tompkins Cortland Community College; May 19 2011, Susan Anagnost
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
Continuing Appointment as of May 2011

Robert B. Hanna, PhD
Professor/Professor Emeritus as of December 2010
Continuing Appointment

George H. Kyanka, PhD
Professor
Continuing Appointment

Rafaat 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 in our curriculum.

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<th>Visiting Instructor</th>
<th>Fall 2010</th>
<th>Spring 2011</th>
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<tr>
<td>Leonard Woods</td>
<td>NYS Building Codes</td>
<td>Timber Design (req.)</td>
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<tr>
<td>Sheila Weed</td>
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<td>Computer-Aided Design and Drafting (req.)</td>
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<tr>
<td>Kevin Stack</td>
<td></td>
<td>Sustainable Innovations in Residential Construction</td>
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<tr>
<td>Ronald Kenyon</td>
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Professional Support Staff:

William L. Kelleher, MS, Instructional Support Specialist, SCME; and Laboratory Supervisor, Wood Products Engineering Lab

Robert P. Smith, MS, Assistant Director and 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 2010-11

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<th>RESEARCH</th>
<th>RESEARCH</th>
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<th>Problem / Seminar</th>
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| Visiting Instructors     |          |        |        |       |          |       |       |
| KENYON, RONALD           | 0        | 0       | 0       | 0     | 45       | 0     | 45    |
| STACK, KEVIN             | 0        | 0       | 0       | 0     | 24       | 9     | 33    |
| WEED, SHEILA             | 0        | 0       | 0       | 0     | 57       | 3     | 60    |
| WOODS, LEONARD           | 0        | 0       | 0       | 0     | 78       | 3     | 81    |
| Total Visiting           | 0        | 0       | 0       | 0     | 204      | 15    | 219   |
| per visiting faculty     |          |        |        |       | 51       | 3.75  | 55    |

| Total All                | 8        | 63      | 93      | 8     | 1712     | 228   | 2112  |
| per all faculty          | 1        | 5       | 7       | 1     | 132      | 18    | 162   |
## Teaching Workload as provided by OIR

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Research Courses include the following:
- All courses ending in 498, 499, 798, 899, 999
- EST400, FCH496, FTC298

Prob/Sem Courses include the following:
- All courses ending in 420, 497, 797, 898, 997
- EFB495, EST495, FOR895, LSA495, WPE303
Other Teaching Activities:

Anagnost, S.E.
Spring 2011
• Lecture for the Kiln Drying Workshop: “Wood Microbiology, Decay, Stain and Mold”, SUNY-ESF January, 2011

Crovella, P. L.
Summer 2010
• Presentation for EFB 796 on Sustainable Energy Systems for Buildings

Fall 2010
• Delivered a unit of instruction concerning sustainable construction and renewable materials for CME 132 Orientation Seminar: “Construction Management and Wood Products Engineering”

Spring 2011
• Presented “Sustainable Energy Systems in the Built Environment” for ESC 335 Renewable Energy (Instructor Mike Kelleher)
• Presented “Geothermal Heating Systems” for ESC 335 Renewable Energy (Instructor Mike Kelleher)

Meyer, R.W.
Spring 2011
• Lecture on “Wood Characteristics” for the Kiln Drying Workshop: Drying Quality Lumber for Profit, SUNY-ESF January, 2011

Smith, J.L.
Fall 2010
• Prepared and presented a lecture titled “Research Perspective” for CME 132 – Freshman Seminar on October 20, 2010

Smith, W.B.
Fall 2010
• “Drying Stress and How to Deal with It”, invited presentation to New England Kiln Drying Association fall meeting, Shelburne, NH, 11/4/10
• “Wood Products Engineering”, CME 132 Orientation, guest lecture to first year students, 10/14/09.

Spring 2011
Kiln Drying Workshop: Drying Quality Lumber for Profit, January 10-13, 2011 sponsored by: SUNY ESF, the Department of Sustainable Construction Management and 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 15 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 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

“Drying Oak and Thick Hardwood Lumber”, invited presentation to New England Kiln Drying Association spring meeting, Oneonta, NY, 4/6/11.

**Tiss, K.J.**

- Delivered a unit of instruction concerning construction management and what my role is in the department to the Fall 2010 CME 132 Orientation seminar.
- Delivered a series of guest lectures in the ERFEG Capstone course as requested by Doug Daley. I discussed types of estimates and how to go about developing a cost projection for an engineering project.
- Participated in selecting this year’s winner of the ESF Foundation Award for Exceptional Achievement in Teaching.
Professional Development activities to support teaching and curriculum development

Crovella, Paul
- Attended three-day Mechanical Electrical Boot Camp training session for college instructors of mechanical systems courses. April 4-6, Omaha, NE
- Attended two-day Associated Schools of Construction annual conference, April 7-8, Omaha, NE
- Attended three-day DECON ’11 conference, May 16-18, New Haven, CT
- Attended Upstate Green Building Conference, March 24-25, Syracuse, NY
- Attended Porous Pavements Workshop, March 17, Syracuse, NY
- Attended Electrical Code Update workshop on January 27, Hamilton, NY
- Attended CNY Engineering Expo, November 15, Syracuse, NY
- Attended one day Building Science workshop presented by BPCA, October 6, Syracuse, NY
- Attended Syracuse Center of Excellence Symposium, September 27-28, Syracuse, NY
- Attended ACI evening meeting for presentation on concrete testing by Ken Hover February 16, Syracuse, NY

Hussein, Rafaat
- Completed over 27 credits for professional development.
- Attended over 14 professional meetings

Smith, Jennifer
- Hardy L. Shirley Faculty Mentoring Colloquium, “Collaborations in Research, Teaching and Outreach: Opportunities, Challenges and New Paradigms,” 1/12/11
- Attended WISE faculty luncheon with Dr. Catherine Badgley, Research Scientist, University of Michigan, 4/26/11

Tiss, Kenneth
- Attended OSHA 502 course at Rochester Institute of Technology for maintaining the OSHA outreach training capabilities for the department.
- Attended class on One Note at Syracuse University
## Faculty Advising 2010-2011

<table>
<thead>
<tr>
<th>No. Undergraduate Advisees</th>
<th>No. Graduate Advisees and Committees</th>
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<td>Anagnost</td>
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<td>Crovella</td>
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<tr>
<td>Hanna</td>
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<td>Kyanka</td>
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<td>Meyer</td>
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<td>Smith, J.</td>
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<td>Smith, W.</td>
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*Not as Major Professor

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<th>Chair of thesis defense or candidacy exam committee</th>
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<tr>
<td>Anagnost</td>
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<td>Crovella</td>
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<tr>
<td>Hanna</td>
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<tr>
<td>Hussein</td>
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<td>Kyanka</td>
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<td>Smith, J.</td>
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<tr>
<td>Smith, W.</td>
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<tr>
<td>Tiss</td>
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</table>

### Other Advising Activities

**Anagnost, Susan**

- Prepared the *Advising Manual for Students in the Bachelor of Science Program in Construction Management*. Copies were given to the new students, and the manual is posted on the department website. The manual was updated prior to each registration period to reflect COI approval of curriculum changes.
- Sent (email) advising notices and other curriculum information to all SCME students prior to registration.

**Crovella, Paul**

- Advisor for Green Construction Group – assisted with group founding, affiliation with NAHB and AGC, field trips, guest speakers, and community service project.
Smith, Jennifer
• Steering Committee member for Nicholas Ahlbin – Masters of Architecture candidate at Syracuse University, “EMERGENC(e/y): Resilient Urban Housing Strategies for Hazardous Zones of the United States”
• Steering Committee member for Christopher Kim – Masters of Civil and Environmental Engineering candidate at Syracuse University, “Water Uptake of Natural Fibers,” – directed Mr. Kim’s laboratory work for his project. The work was conducted in the SCME lab.
• Tiffany Monaco – Master of Civil and Environmental Engineering candidate at Syracuse University, Committee Chair

Smith, William
• Invited External Examiner, Wenhua Liu, Ph.D. Université of Laval, Quebec City, *Modeling Color Changes in Wood During Conventional Drying,*
• Participated as a panelist on Graduate Student Association professional development program on “Preparing for your Thesis Defense”, 3/30/11.

b. Curriculum changes for the academic year 2010-11

1. New course approvals:
   a. CME 480 Fundamentals of Microscopy Anagnost
   b. CME 680 Fundamentals of Microscopy Anagnost
   c. CME 488 Professional Construction Project Management Presentation Seminar Tiss
   d. CME 532 Mechanical and Electrical Equipment Crovella
   e. CME 565 Sustainable Innovations in Residential Construction Stack
   f. CME 643 Estimating for Construction in a Green Global Economy Tiss
   g. CME 663 Managing a Construction Project through Construction Planning and Scheduling Tiss
   h. CME 664 Urban Project Management Tiss

2. A proposal was submitted for a graduate program in Sustainable Construction Management and Wood Science (SCMWS). The three engineering departments at ESF are submitting proposals for three separate graduate programs, and to replace 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.

3. The MPS programs were restructured to clarify course requirements; it is now possible to complete the MPS in Construction Management in one calendar year.

4. For all options in the graduate program in SCMWS entry requirements and degree requirements were rewritten and restructured for the college catalog. The changes should facilitate advising.

5. The minor in Sustainable Construction was revised. The name was changed from Sustainable Construction Management to Sustainable Construction. The list of courses was updated to include the new courses CME 304 Environmental Performance Measures for Building, CME 305 Sustainable Energy Systems for Buildings, CME 306 Engineering Materials for Sustainable Construction, and CME 405 Building Information Modeling for Construction Management. The minor was sent to COI for ESF and SU approval. The revisions to the minor were approved by COI.

6. Specific curriculum changes to the CM program approved spring 2011:
a. APM 104 Pre Calculus was added as a required course in the fall semester freshman year. Students who have already taken Pre calculus take an elective.
b. On the freshman plan sheet, APM 105 was moved to the spring semester freshman year; APM 106 was moved to the fall semester sophomore year.
c. The department approved changes to the General Education requirements. These were approved by COI spring 2011.
d. CME 304 was moved to lower division.
e. CME 132 is now required for all students (freshman and transfer students)
7. A plan was developed to phase in the new Construction Management curriculum. Freshman enrolling in fall 2011 (class of 2014) started on the new curriculum. Beginning in the spring semester 2011 all transfer students are enrolled in the new curriculum.
8. All SCME course descriptions were updated with the new prefix, CME, and sent to COI. The majority (thirty) did not have any changes other than prefix changes. Thirty-two courses needed to update their course description to the new format with learning objectives. These were completed and sent to COI for approval. All were approved.
9. The list of courses to be dropped from the college catalog was be submitted to COI fall 2010.
10. The department and college web pages, college catalog pages and promotional materials were updated to the new department name and curriculum.
11. The department is investigating changes to the courses in wood products engineering concentration. As the WPE major phases out by fall 2012, new courses should be developed to better align the course content with programmatic needs in construction management, forest and natural resources management, paper science, and other programs at ESF.
12. The department continues to investigate a second major in building science, building materials and engineering, or construction engineering.

c. Listing of awards and recognitions

Paul Crovella
Awarded a scholarship from the Mechanical Contracting Education and Research Foundation to attend the three-day Mechanical Boot Camp for Educators, April 4-6, Omaha, Nebraska
2. Research

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

<table>
<thead>
<tr>
<th>Author</th>
<th>Journal articles (refereed)</th>
<th>Books</th>
<th>Book chapters</th>
<th>Journal articles (Non-refereed)</th>
<th>Presentations</th>
<th>Poster Presentations</th>
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Citation Analyses (prepared by James Williamson for SCME)

SCME Citation Report for 2011 covering 2001 - 2010 from Scopus

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<th>Faculty Member</th>
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<th>2001-2010</th>
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*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."
Publications (refereed)

Anagnost, Susan E.

Crovella, Paul

Hanna, Robert

Kyanka, G.H.

Smith, Jennifer L.


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)

Anagnost, S.E.

Smith, Jennifer L.

Research Presentations/Posters

Anagnost, Susan E.


Crovella, Paul
A Comparison of Techniques for Measuring Commercial Building Airtightness, Crovella, Paul, 8 pages. –Presented at IAQVEC 2010 August, 2010


Right-sizing Community Deconstruction Development – Co-presented at DECON 11 May, 2011

Meyer, Robert W.

Smith, Jennifer L.

“Rolled Erosion Control Products,” Farms, Folks, and Funding: Cultivating Stewardship Through Research and Practice Workshop, co-sponsored by the Syracuse University Environmental Finance Center, NY Farm Viability Institute, and the Finger Lakes – Lake Ontario Watershed Protection Alliance, Canandaigua, NY, April 13, 2011.
b. Summary of grant activity (provided by ORP)

Sponsored program New Award and Award Funding Changes for fiscal year 2010-2011 (data provided by ORP*)

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<th>Title</th>
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<th>Primary Sponsor Name</th>
<th>Project Start Date</th>
<th>Project End Date</th>
<th>Credited Share Percentage</th>
<th>Total Expenditure Amount</th>
<th>Credited Expenditure Amount</th>
<th>IC:DC Ratio</th>
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<tbody>
<tr>
<td>Anagnost, Dr. Susan C</td>
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<td>Sustainable Innovations in the Built Environment</td>
<td>Nonfederal</td>
<td>Syracuse University</td>
<td>7/1/2008</td>
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*Data include only those awards that incurred expenditures during the period May 1, 2010- April 30, 2011.
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<th>Requested End Date</th>
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<th>Total Request</th>
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<td>SUNY ESF Gateway Combined Heat and Power System</td>
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<td>A Novel Computational Model and Application Software for Diagnosing and Predicting Livestock Hazardous Wastes and Pollution - Prevention and Control Approach for Sustainability</td>
<td>US Environmental Protection Agency</td>
<td>8/15/2011</td>
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<td>Bio-Based Mulches for the Sustainable Management of Forests</td>
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<td>Valorization of Lignin, Lignin Degradation Products, and Extractives within a Biorefinery Based on Hot Water Extraction of Northeastern Hardwood Biomass</td>
<td>USDA - National Institute of Food and Agriculture</td>
<td>1/1/2011</td>
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<td>Collaborative Research: Geotextile Tubes for the Sustainable Dewatering</td>
<td>National Science Foundation</td>
<td>5/1/2011</td>
<td>4/30/2014</td>
<td>$170,103.00</td>
<td>P</td>
<td>45.86%</td>
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<td>Smith, Jennifer L.</td>
<td>Novel Green Adhesives from the ESF Biorefinery</td>
<td>US Department of Agriculture-Cooperative State Research Education &amp; Extension Service/McIntire-Stennis Program</td>
<td>8/15/2011</td>
<td>9/30/2013</td>
<td>$54,497.00</td>
<td>R</td>
<td>0.00%</td>
<td></td>
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<tr>
<td>Smith, Jennifer L.</td>
<td>Wood-Based Carbon Skeleton Composites</td>
<td>US Department of Agriculture-Cooperative State Research Education &amp; Extension Service/McIntire-Stennis Program</td>
<td>8/15/2011</td>
<td>9/30/2013</td>
<td>$53,235.00</td>
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</table>

Subtotal - Sustainable Construction Management and Engineering Credited--Number: 4.25 - Amount: $794,868 24.64%

*Awarded(A) Pending (P) Rejected (R)
Proposal Activity Summary by PI/Co PI; 12-Month Period ending 4/30/11 (data from ORP)

12 Month Period: May 1, 2010 - April 30, 2011

<table>
<thead>
<tr>
<th>Name</th>
<th>Credited Number</th>
<th>Credited Amount</th>
<th>Credited Direct</th>
<th>Credited Indirect</th>
<th>IC:DC Ratio</th>
<th>Number Awarded</th>
<th>Number Pending</th>
<th>Number Rejected</th>
<th>Amount Awarded</th>
<th>Amount Pending</th>
<th>Amount Rejected</th>
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<tbody>
<tr>
<td>Crovella, Paul</td>
<td>0.17</td>
<td>160,659</td>
<td>131,688</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>160,659</td>
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<td>Hussein, Rafaat M.</td>
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<td>5,200</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>6,552</td>
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<td>Meyer, Robert W.</td>
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<td>64,693</td>
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<tr>
<td>Smith, Jennifer L.</td>
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<td>407,893</td>
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<td>0.58</td>
<td>1</td>
<td>157,496</td>
<td>306,701</td>
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<td>Smith, William B.</td>
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<td>33,169</td>
<td>28,251</td>
<td>4,919</td>
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<td>0.33</td>
<td>-</td>
<td>-</td>
<td>33,169</td>
<td>-</td>
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</table>
Other Active Sponsored Research Projects
For the period June 2010-May 2011. (Information provided in faculty annual reports):

Anagnost, S.

Crovella, Paul

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

Smith, Jennifer

Smith, William B.
Smith, W.B. Determination of Clear Wood Strength of Wood from Broken Southern Pine Utility Poles, Wood Products Engineering Laboratory research project # WPEL-WBS-10-06A, for National Grid, $7,500, 5/1/10 – 9/30/10, Jacob Romer, Student Assistant (hourly).

Smith, W.B. Determination of Bending Strength and Stiffness of Southern Pine Treated with a Wood Preservative, Wood Products Engineering Laboratory research project # WPEL–WBS-11-03A, for Osmose, $9,800, 4/1/11 – 8/31/11, Jacob Romer, Student Assistant (hourly).

c. Listing of research awards and recognitions
3. Outreach and Service

a. Enumeration of Outreach Activities

**Susan Anagnost**
- President of the Society of Wood Science and Technology (SWST) July 2010-June 2011; attended or participated by conference call in board meetings, July 2010, December 2010, March 2011 (Gulfport, MS) and June 2011 (Portland OR). Responsibilities included preparing agenda and running the business meetings, assembling the special charges for each committee and updating the Committee Handbook, preparing correspondence when needed, attending the Agenda 2020 meetings (formerly AF&PA Agenda 2020) as the representative from SWST, presiding over the annual business meetings at the 2011 annual convention.
- CO-Chair of the SWST Annual Meeting / United Nations Economic Commission for Europe Timber Committee Meeting October 11-14, 2010, held at the United Nations, Geneva, Switzerland. Solicited abstracts for four days and six sessions of presentations; assigned session co-chairs; addressed the convention at the Opening Session, the joint Annual Market Review session, the Chairs’ Reception, and the SWST Business meeting.
- Attended the SWST Annual Convention in Portland Oregon, June 23, 2011. As President of the Society, Anagnost was in charge of the Annual Business meeting on June 23rd and the Board of Director’s meeting on June 24th.
- Anagnost will serve as Past President of SWST from July 1 2011 to June 30 2012. Responsibilities include the soliciting nominations from the Past Presidents Council for Fellows, Distinguished Service Award, and overseeing the balloting for the Marra Award.
- CORRIM Board of Directors. Attended the CORRIM Board of Directors meeting on June 22 in Portland, Oregon.
- Member of the NYS Toxic Mold Task Force, reviewed the final report to the NYS State Legislature for NYSDOH
- Construction Career Day at the NYS State Fairgrounds, October, 2010
- Careers in Construction Day at Tompkins Cortland Community College, May 23, 2011
- Coordinated the submission of a YouthBuild Program grant proposal with OCM BOCES. The proposal was not funded.
- Invited presentation at the New England Kiln Drying Association Spring meeting, April 7, 2011, Oneonta, N.Y.
- Wood identification for industrial clients
- Associate Editor of International Association of Wood Anatomists Journal

**Paul Crovella**
- Session moderator for presented papers at ASC annual convention
- Filmed an interview for Gateway Video Project.
- Phone conference to collaborate for New Ventures partnership grant
- Met with members of East Syracuse-Minoa administration and ESF Outreach to discuss opportunities for closer linkage.
- Provided strength testing for two timber joint types for New Energy Works as part of class work for CME 304
- Met with Mike Brisbin of Syron Windows to receive product donations (approximately $700) and discuss research opportunities
- Presented a unit on “solar design with a sundial” for SUNY-ESF “Take your kids to work day”
• Career Connections – presentations on opportunities in sustainable construction management for CNY job seekers. (9/23/10 and 3/30/11) sponsored by CNYWorks
• Ashley McGraw Architects – presentation on class deconstruction study (3/4/11)
• Radio interview with Jim Reith on class deconstruction study (Jan 27)
• Provided BPI curriculum tutoring and study materials for Hope 4 Us Housing through an E- nitiative grant for Syracuse CoE and CNY Works.

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
• The AISC regional conference, invited speaker on nondestructive technologies for sustainable construction
• Member of the planning committee for 2011 Construction Career Day; member as of February 2011

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 22nd Annual Balsa Bridge Competition involved teams from 10 area high schools and middle schools.
• ESF Open House Wood Products Engineering Testing Lab demonstrations for prospective students

George Kyanka
• Responded to phone inquiries from individuals or industry

Robert Meyer
• Guided planning for Ninth Annual Green Building Conference held March 2011.
• Biweekly planning is underway for the Tenth Annual Green Building 2012 Conference; the 2012 conference will comprise two full days of presentation instead of one; intent is to increase attendance significantly
• 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 2011

Jennifer L. Smith
• Women in Science & Engineering (WISE) mentor, Syracuse University
• Participated in several meetings in attempts to establish an ESF-certification program with the Southside Innovation Center (SSIC)
• American Society of Engineering Educators Panelist, Joint Panel Session between the International Division and the Women in Engineering Division (WIED), “Enhancing the Quality of Life throughout the World: Sustainable and Appropriate Technology Projects for the World’s Women,” Vancouver, Canada, June 27, 2011.
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 Department of Sustainable Construction Management & Engineering, I regularly provide extensive service to the public and the wood manufacturing, processing and using industries.
- 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.
  - Participated in the 2010 Fall, November 3-4, Shelburne, NH meeting
  - Participated in the 2011 Spring, April 6-7, Oneonta, NY, meeting
- Society of Wood Science and Technology
  - Participated in 2010 Annual Meeting, October 9-16, Geneva, Switzerland
- Hardwood Leaders Forum
  - Invited participant; December 6-7, 2010, Charlotte, NC
- American Wood-Protection Association, AWPA 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
  - Participated in 2010 Technical Committee Meetings, September May 19-20, Providence, RI
  - Participated in the 2011 Annual Meeting, May 15-17, Ft. Lauderdale, FL
- Regularly interact with and participate in meetings of the Empire State Forest Products Association.
- Industrial and commercial: Osmose, Gutchess Lumber, National Grid, Hartwick College, Universal Forest Products, Marcal Paper, NSTAR, Qwest, REMC Indiana.

Kenneth J. Tiss

- Conducted OSHA 10 Hour outreach course for the Lafayette High School Youth Construction Initiative Program
- 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. Attended Construction Career Days meetings and the Construction Career Day event itself
- Presentation on scheduling and the monitoring and updating of schedules to Henderson Johnson (a local construction company) for their annual meeting
- I am maintaining my Certified Professional Constructor certification.
- Administered two Certified Constructor Examinations, one in the fall and one in the spring on behalf of the Certified Professional Constructor Commission.
- Worked with our Research Office, Paul Crovella and Dr. Anagnost on a proposal for the Youth Build Grant. This involved Onondaga BOCES, Onondaga Central School and Lafayette Central School. I attended a meeting of potential participants at the Town of Onondaga Town Hall. We submitted our participation plan. The grant was not awarded to this group. A downstate group received it instead.
- 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.

- 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.
- Karaline Carr-discussed green construction concepts/techniques/builders with her for her new house.

b. Summary of Grant Panel Service (by agency)

Paul Crovella
- Technical Review Committee member for NYSERDA Green Residential Building Program Technician RFQ

Kenneth Tiss
- Reviewed a McIntyre Stennis proposal for SUNY ESF Committee on Research

c. Summary of Editorial Board Service (by journal)

Susan E. Anagnost
- Associate Editor, International Association of Wood Anatomists Journal, served as Associate Editor for one manuscript, June 2011
- International Association of Wood Anatomists Journal, Reviewer for 1 manuscript, July 2010
- Forest Products Journal, Reviewer for 1 manuscript, May 2011
- Environment International, Reviewer for 1 manuscript, March 2011

Paul Crovella
- Reviewer for Associated Schools of Construction Conference and Journal:
  - The Evolution of Laboratory Component of a Climate Control Course in a Construction Management Program
  - Duration Analysis with Job Cameras

Rafaat Hussein
- Reviewer for Associated Schools of Construction:
  - Teaching BIM in a Study Abroad Class with Chinese & American University Students,
  - Establishing a Construction Outreach Program,
  - Establishing New Graduate Competencies: Ensuring that Construction Management Curriculums are
  - Delivering “Job-Ready” Employees
  - Assessment of Teaching Delivery Methods for a Jobsite Management Undergraduate Course
  - Using Embodied Carbon Dioxide as a Design Tool - A Case Study, ICE

Robert W. Meyer
- Maderas Ciencia y Technologia, Reviewer for 1 manuscript
Kenneth J. Tiss
• Associated Schools of Construction Conference Proceedings for the 46th International Conference. I reviewed three submissions for this conference.
• Reviewed papers for the Associated Schools of Construction annual International Conference:
  o Construction Management Students Preference Regarding Employer Organizational Culture
  o Development of an Integrated Project Based Course: A Jobsite Management Class Case Study
• Reviewed a paper for the Associated Schools of Construction International Journal:
  Retaining Women Students in Construction Engineering Undergraduate Program by Balancing Integration and Identity in Student Communities.
• Reviewed a book outline entitled “Professional Ethics for the Construction Manager” for Taylor and Francis.

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, July 1, 2010 – June 30, 2011
• 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 Framers Guild of North America
• Society of Building Science Educators
• Greening USA
• Upstate Chapter of the US Green Building Council

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
• Society of Wood Science and Technology
• Hardwood Leaders Forum
• Forest Products Society
• American Wood Protection Association
• 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, member
  o Administered two Certified Constructor Examinations—one in the fall and one in the spring on behalf of the AIC Certified Professional Constructor Commission.
• 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

Susan E. Anagnost
• UUP Professional Development Award ($660) to attend The Society of Wood Science and Technology Annual Convention June 2011
• Certificate of Appreciation, from the UNECE Timber Committee, for Appreciation to the President of the Society of Wood Science and Technology for holding a joint session with the UNECE Timber Committee in October 2012 in Geneva, Switzerland.
• Plaque given during the SWST Annual Business Meeting in appreciation for “Dedicated Service as President”

Jennifer L. Smith
• Awarded an ESF Faculty Travel Grant to participate in the 5th International Conference on Scour and Erosion, San Francisco, CA, November 7-10, 2010, $700
4. Service-Learning

a. Courses with service learning component

CME 487 Senior Seminar

CME 331 Construction Safety

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

CME 487 Senior Seminar. The students conducted some interviews and the ESF snow control budget was reviewed. The interviews and project were conducted by three students for a total of twenty hours.

CME 331 Construction Safety
This class provides safety instruction to volunteers for Habitat for Humanity SU/ESF student chapter in years when they have an active construction project during the fall semester. They did not have the opportunity this year.

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

CME 487 Senior Seminar:
Instructor input was about four hours per week for four weeks during the semester.

CME 331 Construction Safety
5. Graduate Students

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

In fall 2010 there were 19 graduate students enrolled; spring 2011 there were 22 graduate students enrolled (6 MPS, 10 MS and 6 PhD)

<table>
<thead>
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<th>Student Name</th>
<th>Degree Program</th>
<th>Major Professor</th>
<th>Expected Graduation</th>
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<td>Arthur, Bradford</td>
<td>MPS</td>
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<td>Ayers, Gary</td>
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<td>TISS</td>
<td>May 2013</td>
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<tr>
<td>Deuell, Alexander</td>
<td>MPS</td>
<td>CROVELLA</td>
<td>May 2011</td>
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<td>Dourdas, Kris L.</td>
<td>MPS</td>
<td>TISS</td>
<td>May 2013</td>
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<tr>
<td>Emmons, Shawn P.</td>
<td>MPS</td>
<td>TISS</td>
<td>May 2012</td>
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<tr>
<td>Freund, Michael D.</td>
<td>MPS</td>
<td>MEYER</td>
<td>Dec 2010</td>
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<td>Rann, Michael</td>
<td>MPS</td>
<td>TISS</td>
<td>Dec 2011</td>
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<td>CROVELLA</td>
<td>May 2013</td>
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<tr>
<td>Brown, James</td>
<td>MS</td>
<td>CROVELLA</td>
<td>Dec 2011</td>
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<tr>
<td>Guiles, Jason P.</td>
<td>MS</td>
<td>SMITH, W.</td>
<td>May 2011</td>
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<td>Paolini, Christopher R.</td>
<td>MS</td>
<td>TISS</td>
<td>Dec 2012</td>
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<tr>
<td>Stack, Kevin P.</td>
<td>MS</td>
<td>MEYER</td>
<td>May 2012</td>
</tr>
<tr>
<td>Swarts, Ryan R.</td>
<td>MS</td>
<td>SMITH, J.</td>
<td>May 2013</td>
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<td>Thibault, Allison Jane</td>
<td>MS</td>
<td>TISS</td>
<td>May 2013</td>
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<tr>
<td>Wheeler, Joel</td>
<td>MS</td>
<td>TISS</td>
<td>May 2012</td>
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<tr>
<td>Woods, Sean</td>
<td>MS</td>
<td>TISS</td>
<td>May 2012</td>
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<tr>
<td>Viskupic, Eric</td>
<td>MS</td>
<td>MEYER</td>
<td>May 2012</td>
</tr>
<tr>
<td>Bi, Yunyun</td>
<td>PHD</td>
<td>MEYER</td>
<td>May 2014</td>
</tr>
<tr>
<td>Crovella, Paul L</td>
<td>PHD</td>
<td>KYANKA</td>
<td>Dec 2011</td>
</tr>
<tr>
<td>Gates, Scott Lewis</td>
<td>PHD</td>
<td>MEYER / TISS</td>
<td>May 2012</td>
</tr>
<tr>
<td>Kim, Hwa Sung</td>
<td>PHD</td>
<td>ANAGNOST</td>
<td>Dec 2011</td>
</tr>
<tr>
<td>Randrianarisoa, Bernard</td>
<td>PHD</td>
<td>MEYER</td>
<td>Dec 2011</td>
</tr>
<tr>
<td>Tiss, Kenneth J</td>
<td>PHD</td>
<td>KYANKA</td>
<td>Dec 2011</td>
</tr>
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</table>

2010-2011 degree recipients

Deuell, Alexander MPS CROVELLA May 2011
Emmons, Shawn P. MPS TISS May 2012
Freund, Michael D. MPS MEYER Dec 2010
Guiles, Jason P. MS SMITH, W. May 2011

Graduate Applications for Spring 2011:
Number of Applicants 5
No. rejected 1
No. accepted/enrolled 4

Graduate Applications for Fall 2011:
Number of Applicants 12
No. rejected 2
In process/ withdrew / incomplete 3
No. accepted/withdrew 6
No. accepted/enrolled 1
Graduate student practicum projects, theses and dissertations:

Deuell, Alexander, MPS Construction Management, May 2011, Major Professor Paul Crovella
MPS Practicum: *Construction Managers at the Design Table: Qualifying the Impacts*, April 2011

Emmons, Shawn, MPS Construction Management, May 2011, Major Professor, Kenneth Tiss
MPS Practicum: *Part 1: Logistics on a Construction Site: The Syracuse Veterans Administration Hospital Spinal Trauma Center Addition; Part 2: The Front End: What You Do Not Know can Hurt You*

Freund, Michael, MPS Construction Management, December 2010, Major Professor Robert Meyer
MPS Practicum: *LEED Certification in Historic Preservation*, December 2010

Guiles, Jason, MS Wood Products Engineering, May, 2011, Major Professor William B. Smith

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

Four State GA positions were shared among 5 graduate students. In addition, one student was hired for 10 hours per week in the fall semester using the temporary service allocation provided in the department’s State OTPS account.

<table>
<thead>
<tr>
<th>Student Name</th>
<th>Degree Program</th>
<th>Major Professor</th>
<th>Funding Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kim, Hwa Sung</td>
<td>PHD</td>
<td>ANAGNOST</td>
<td>Graduate Assistantship (full)</td>
</tr>
<tr>
<td>Bi, Yunyun</td>
<td>PHD</td>
<td>MEYER</td>
<td>Graduate Assistantship (full)</td>
</tr>
<tr>
<td>Wheeler, Joel</td>
<td>MS</td>
<td>TISS</td>
<td>Graduate Assistantship (half)</td>
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<tr>
<td>Woods, Sean</td>
<td>MS</td>
<td>TISS</td>
<td>Graduate Assistantship (Fall-half; Spring-full)</td>
</tr>
<tr>
<td>Thibault, Allison Jane</td>
<td>MS</td>
<td>TISS</td>
<td>Graduate Assistantship (half-spring)</td>
</tr>
<tr>
<td>Randrianarisoa, Bernard</td>
<td>PHD</td>
<td>MEYER</td>
<td>Temporary service (Fall 2010)</td>
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<td>Crovella, Paul L</td>
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<td>KYANKA</td>
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<tr>
<td>Tiss, Kenneth J</td>
<td>PHD</td>
<td>KYANKA</td>
<td>no support</td>
</tr>
<tr>
<td>Gates, Scott Lewis</td>
<td>PHD</td>
<td>MEYER</td>
<td>no support</td>
</tr>
<tr>
<td>Almafachchi, Adnan</td>
<td>MS</td>
<td>CROVELLA</td>
<td>no support</td>
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<tr>
<td>Brown, James</td>
<td>MS</td>
<td>CROVELLA</td>
<td>no support</td>
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<tr>
<td>Guiles, Jason</td>
<td>MS</td>
<td>SMITH, W.</td>
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<tr>
<td>Paolini, Christopher</td>
<td>MS</td>
<td>TISS</td>
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<td>Stack, Kevin</td>
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<td>MEYER</td>
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<td>Swarts, Ryan</td>
<td>MS</td>
<td>TISS</td>
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<td>Viskupic, Eric</td>
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</tr>
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<td>Arthur, Bradford</td>
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<td>Dourdas, Kris</td>
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<td>Emmons, Shawn</td>
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<td>Freund, Michael</td>
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<td>MEYER</td>
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<tr>
<td>Rann, Michael</td>
<td>MPS</td>
<td>TISS</td>
<td>no support</td>
</tr>
</tbody>
</table>
c. Courses having TA support (list courses with enrollment)

<table>
<thead>
<tr>
<th>Courses with GA support</th>
<th>Instructor</th>
<th>Graduate Assistant</th>
<th>Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall semester 2010</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CME 453 Construction Planning/Scheduling</td>
<td>Tiss</td>
<td>Wheeler, Joel (50%)</td>
<td>25</td>
</tr>
<tr>
<td>Research</td>
<td>Smith, J.</td>
<td>Pullen, Scott (50%)</td>
<td></td>
</tr>
<tr>
<td>CME 785 Scanning Electron Microscopy</td>
<td>Hanna</td>
<td>Hwa-Sung Kim (100%)</td>
<td>8</td>
</tr>
<tr>
<td>CME 342 Light Construction</td>
<td>Crovella</td>
<td>Woods, Sean (50%)</td>
<td>34</td>
</tr>
<tr>
<td>ERE 221 Statics</td>
<td>Kyanka</td>
<td>Randrianarisoa, Bernard (tempservice)</td>
<td>10</td>
</tr>
<tr>
<td>CME 202 Intro Prof Communications</td>
<td>Meyer</td>
<td>Bi, Yunyun (50%)</td>
<td>11</td>
</tr>
<tr>
<td>CME 387 Renewable Materials</td>
<td>Meyer</td>
<td>Bi, Yunyun (50%)</td>
<td>32</td>
</tr>
<tr>
<td>CME 330 Building Codes</td>
<td>Kenyon</td>
<td>Randrianarisoa, Bernard (tempservice)</td>
<td>15</td>
</tr>
<tr>
<td>Calculus tutoring</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Spring semester 2011</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CME 226 Mechanics of Materials*</td>
<td>Hussein</td>
<td>Bi, Yunyun (50%)</td>
<td>4</td>
</tr>
<tr>
<td>CME 404 Applied Structures</td>
<td>Woods</td>
<td>Woods, Sean (50%)</td>
<td>27</td>
</tr>
<tr>
<td>CME 306 Engineering Materials</td>
<td>Crovella</td>
<td>Woods, Sean (25%)</td>
<td>3</td>
</tr>
<tr>
<td>CME 685 Transmission Electron Microscopy</td>
<td>Anagnost</td>
<td>Hwa-Sung Kim (50%)</td>
<td>4</td>
</tr>
<tr>
<td>CME 376 Decay of Wood Products /CME770</td>
<td>Anagnost</td>
<td>Hwa-Sung Kim (50%)</td>
<td>6</td>
</tr>
<tr>
<td>GA</td>
<td>Tiss</td>
<td>Wheeler, Joel (50%)</td>
<td></td>
</tr>
<tr>
<td>CME 343 Constr. Estimating / CME 454 Proj M</td>
<td>Tiss</td>
<td>Thibault, Allison (50%)</td>
<td>33/26</td>
</tr>
<tr>
<td>CME 455 Contracts &amp; Specs</td>
<td>Smith, J.</td>
<td>Pullen, Scott (50%)</td>
<td>30</td>
</tr>
<tr>
<td>CME 422 Composite Materials</td>
<td>Smith, W</td>
<td>Bi, Yunyun (25%)</td>
<td>24</td>
</tr>
<tr>
<td>CME 405 BIM</td>
<td>Crovella</td>
<td>Woods, Sean (50%)</td>
<td>12</td>
</tr>
</tbody>
</table>

*Additional GA support from ERE for GNE 362*
6. Governance Structure

a. List components and assigned tasks/responsibilities

Department Chair: Susan Anagnost
Administrative Task List: The department chair is responsible for seeing that these tasks are accomplished on behalf of the department, often with department faculty/staff input and with assistance from the faculty.

- Instruction-plan/modify/evolve curricula; develop schedule of courses and teaching assignments annually, assess learning outcomes, assess course effectiveness, undergraduate review of program (self study/accreditation), review/provide resources for instruction (appoint undergraduate curriculum coordinator to assist with some of these tasks)
- Graduate Applications and Admissions (typically assigned to the Graduate Coordinator)
- Allocate graduate assistantships
- Student Awards
- Facilities utilization
- Undergraduate recruitment/work with Admissions
- Annual planning and budgeting
- Long term planning
- Hire faculty and staff
- Annual Reporting and benchmarking
- Participation in Faculty Governance and other college activities; governance committee assignments
- Department Centers and Institutes
- Development
- Alumni relationships
- Performance programs and evaluations
- Graduation Activities
- Administrative aspects of advising; prepare schedules for new students, assign advisors, petitions, certify graduates, prepare advising handbook,
- Advisory Board
- Develop and maintain department operational policies
- Department promotion and tenure policies and standards
- Mentoring
- Webpages and other publicity for the department
- Lecture series
- Purchasing
- Travel authorizations

Construction Management Curriculum Coordinator: Paul Crovella, June 2010 -
Duties of the curriculum coordinator:
1. responsible for reviewing curriculum and proposing changes to the SCME faculty
2. verifying student status (with the faculty chair)
3. developing and updating advising handbooks for both faculty and students
4. work with the chair and faculty on undergraduate recruitment
5. work with Admissions to review new applications, transfer credits and articulation agreements.
6. Assists the chair with assessment
7. meet with visiting students and represent the department at campus Open Houses (along with
other department faculty)
8. Attend and participate in departmental orientation activities and advising

Graduate Curriculum Coordinator: William B. Smith, June 2010-

Duties of the Graduate Program Coordinator in CMWPE:
1. Monitor 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. This includes bringing graduate applications to department meetings for approval and submit decisions on graduate applications to the graduate office
2. Monitor the progress of current graduate students and work with their major professors to see that all graduation requirements are met.
3. Serve on the Graduate Council led by the Dean of the Graduate School
4. 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.
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 plan. 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.

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.

Institutes and Centers in CMWPE

N.C. Brown Center for Ultrastructure Studies [http://www.esf.edu/scme/ncb.htm]
Director Dr. Robert B. Hanna (Dr. S. Anagnost appointed Director in January 2011)
As of January 1, 2011, Dr. Susan E. Anagnost (formerly Assistant Director)
Assistant Director and Instructional Support Specialist, Robert P. Smith (appointed asst. Director in January 2011)

Renewable Resources Institute
Director Dr. George H. Kyanka

Tropical Timber Information Center [http://www.esf.edu/scme/ttic.htm]
Director Dr. Robert W. Meyer

Wood Utilization Service [http://www.esf.edu/scme/wus/]
Director Dr. William B. Smith

Wood Products Engineering Laboratory (WPEL)
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.

**CMWPE Advisory Board**

<table>
<thead>
<tr>
<th>Name</th>
<th>Organisation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ronald Kenyon</td>
<td>Syracuse City School District</td>
</tr>
<tr>
<td>Jake McKenna</td>
<td>Parsons-McKenna Construction</td>
</tr>
<tr>
<td>Vince Nicotra</td>
<td>QPK Design</td>
</tr>
<tr>
<td>James Ruddock</td>
<td>Onondaga Community College</td>
</tr>
<tr>
<td>Kevin Stack</td>
<td>Northeast Natural Homes</td>
</tr>
<tr>
<td>Glen Stahl</td>
<td>Rochester Lumber Company</td>
</tr>
<tr>
<td>Richard Ziobro</td>
<td>Osmose</td>
</tr>
<tr>
<td>Russ Howe</td>
<td>Trus-Joist (Weyerhaeuser)</td>
</tr>
</tbody>
</table>
b. Enumeration of governance service to the department:

Susan E. Anagnost

- Prepared the Self-Study document following Guidelines provided by Valerie Luzadis, Associate Provost. The first part of the process, information gathering, was completed in November, 2010. The internal review (self evaluation) was completed in January 2011. The external review will follow during the 2011 fall semester.
- Prepared the Annual Planning and Budgeting documents as requested by Provost Bongarten in March 2011. 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.
- Submitted proposed curriculum changes and additions to COI for approval
- Updated the SCME Policies and Procedures Manual, October 2010 and April 2011
- Updated the SCME (formerly CMWPE) Outcomes Assessment Program to reflect the department name change and changes in our undergraduate programs from two programs to one, Construction Management.
- Updated the actual expenses for the 2010-2011 department budget with a mid-year review in January and monthly updates through July 2011, and reported on the status of the budget to the department faculty
- Reviewed Middle States Documents regarding issues related to the SCME department
- Advised students (own advisees plus other students when advisors were unavailable)
- Met or communicated with prospective students
- Prepared, administered and analyzed the Senior Exit Survey, Spring 2011, as part of the department’s outcomes assessment program
- Analyzed the data from the results (students scores) of the Certified Constructor Examination for the outcomes assessment program
- Prepared the *Advising Manual for Students in the Bachelor of Science Program in Construction Management*. Copies were given to the new students, and the manual is posted on the department website. The manual was updated prior to registration to reflect COI approval of curriculum changes
- Sent (email) advising notices and other curriculum information to all SCME students prior to registration.
- Laboratory Manager for the Wood Products Engineering Lab (WPEL)
- Organized the SCME department meetings
- Prepared and submitted the annual accreditation report to the Society of Wood Science and Technology
- Prepared and submitted curriculum changes to COI including list of courses to drop, course changes (24), course prefix changes (32), new course proposals (CME 480/460), changes to the graduate program, curriculum changes, changes to the general education requirements (see section 1b, page 15).
- Prepared the Department Annual Report
- Prepared the draft of the SCME Department Promotions and Tenure Standards and Procedures. The draft was sent to the Provost and to the department for their review in June 2011
- Solicited annual reports from the center directors (TTIC, Wood Utilization Service, NC Brown Center for Ultrastructure Studies)
- Director, N.C. Brown Center of Ultrastructure Studies
  - Budget and planning, annual report
  - Instruction
• Travel to electron microscope companies to view their products to assist with planning for upgrading the microscopes

**Paul Crovella**
- Served as curriculum coordinator for the construction management program including
  - updating transfer agreements
  - Meeting with department chairs and faculty at HVCC and OCC to discuss opportunities for transfer students.
  - Department representative for Transfer Days (March 11, 26) and Accepted Student receptions (Feb 21, March 5, April 26, 29)
  - Investigating accreditation of CM program by ACCE
- Department representative for Committee on Instruction
- Department representative to Urban Studies Minor Committee

**Robert Hanna**

**Rafaat Hussein**
- Coordinate and faculty advisor for the Balsa Bridge Competition
- Representative on the Construction Career Day planning committee, beginning February 2011

**George Kyanka**
- Served on the department Promotion and Tenure Committee
- Served on the college P&T committee and as liaison to the department

**Robert W. Meyer**
- Served on the department Promotion and Tenure Committee
- Director, Tropical Timber Information Center

**Jennifer L. Smith**
- Participated in the fall orientation meeting with new transfer students, 8/28/10
- Co-Director, Institute for Sustainable Materials and Manufacturing, approved May 2011.

**William B. Smith**
- Graduate Coordinator for SCME
- Chair, SCME Promotion and Tenure Committee
  - Dr. J. Smith reviewed for reappointment
  - Mr. Paul Crovella reviewed for tenure.
- 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](http://www.iasonline.org).
- Actively participated in SCME developmental fund raising program. Worked with development office and make contact with industrial donors
- Regularly participate in, and make presentation at, ESF and SCME 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.
• 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. Last year this included the New England Kiln Drying Association Fall meetings.

Kenneth Tiss
• I am responsible for the SCME computing facility and work closely with our administrative computing people to ensure problems are solved in timely fashion
  o Renewed RemRate software used in Kevin Stack’s course
  o Contacted the Help Desk and resolved issues with BIM and DOE software
  o Made arrangements for the disposal of a number of old monitors with Debbie Snyder
  o Dealt with several issues regarding the teaching station in Room 154 Baker Laboratory
  o REM Rate Software license renewed.
• 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 eight sessions in February and March of 2011 in which a total student count for the sessions was eighty. Dealt with reserving rooms for the Associate Constructor examination for the year. Worked with CCC and Judy regarding the Associate Constructor examination. Administered the Associate Constructor examination for our students.
• Organized student volunteer guides for Construction Career Days in October. Worked on securing volunteers for the Construction Career Days event. Worked the Construction Career Days event.
• 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. SSIC-continued working on various proposals. None have been successful to date. Wrote and sent a letter of support for SSIC grant effort. Worked on SSIC proposal once again. This was presented to SSIC and it seemed to ultimately die as the year progressed. We asked what modules they wanted first, second, third, etc. and they never got back to us.
• 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. Updated course descriptions and sent to Dr. Anagnost per COI.
• Ginny Yerdon and Suzanne Williams-interfaced with regarding Habitat for Humanity and the SU early program.
• Met with Liz Mix regarding service learning on campus and off campus.
• Contacted the ESF head librarian about the International Journal of Construction subscription. He will continue subscription for now.
• Dealt with several Habitat for Humanity issues resulting in positive outcomes.
• Attended Ground Breaking/Blessing for the upcoming Habitat for Humanity SU/ESF house.
• Provided mentoring to Dr. Jennifer Smith regarding student advising throughout the academic year.
• Began preparations to take a team to the ASC Region 1 Construction Management
• Reviewed proposed P&T documents received from the Provost.
• Lunch meeting with Chris Gray, Pat Griffen, Aaron Jackson and Paul Crovella to discuss ways to involve the department in the Gateway Building project. Field trips are a definite possibility.
• Spoke with Dr. Sam Clemence about new SU Civil program in construction engineering, passed along to Dr. Anagnost.
• Discussed a potential project at the Thousand Islands Biological Station involving our CM students-nothing appears to have come of it as of the end of the spring semester.
• Met with Dr. Anagnost regarding FERPA issue that was raised and I presented how I have been dealing with this since the beginning of the semester. Grades are no longer posted on returned papers, just the points being deducted. Grades are placed in Blackboard which only the student and I have access to.
• Took pictures of the Balsa Bridge competition.
• Rick Romeo offered a note of thanks for my efforts regarding his application for the level of Fellow in the American Institute of Constructors.
• Took video and pictures of the Gateway Building.
• Met with alum Andrew Glauser to discuss the state of the department and the program at his request. He offered his time to talk to my courses in the future.
• Dealt with the SU Institutional Review Board. A complaint was made against me concerning my data collection in the Construction Safety course. I met with the Chair of the IRB and the administrative assistant and the complaint was successfully resolved. There was no problem and my data collection process was reviewed and was proper under past and current Federal guidelines.
• Associate Constructor review session’s conducted-8 sessions held with an average of 8.6 students attending. A total of 69 students attended. A persons count, not an individual count.
• Developed four new courses and received approvals from the department and the college: CME 488, CME 643, CME 663 and CME 664
• Alum Gary Redlon contacted me to let me know that he completed his MBA at Pace University and thanked me for all of my assistance while here at ESF and for the support letter to Pace.
• Drafted and sent a letter of support on behalf of the South Side Innovation Center for their grant application to NYSERDA.
• Developed a letter of recommendation for Mr. Richard Romeo regarding his nomination for Fellow in the American Institute of Constructors.
• Provided a reference for alum Aaron Churchill. Also discussed the completion of his degree.
• Reviewed MS project for SU Civil Engineering student Lalith Kode.
• Participated in the candidacy examination for Amsula Birhan, a SU Civil PhD candidate.
• Met with alum, Michael Hatchwell, regarding career options.
c. Governance Service to the College

Susan Anagnost
- Department Chair for SCME
- Director, N.C. Brown Center for Ultrastructure Studies as of Jan. 1, 2011
- Academic Council
- Member of the Dean’s Graduate Council
- Representative from SUNY ESF on the Board of Directors of CORRIM (Consortium for Research on Renewable Industrial Materials)
- President, Society of Wood Science and Technology, 2010-2011
- Member of the NYS Toxic Mold Task Force
- Participant in the Center for Applied Microbiology; submitted annual report to Dr. Nakas
- Submitted NYSTAR annual report to ORP

Paul Crovella
- Department representative for Committee on Instruction
- Chair for COI Subcommittee on Instructional Quality including various presentations to faculty on progress of electronic course survey implementation
- Department representative for COI Subcommittee on Academic Standards
- Department representative for COI Subcommittee on General Education
- Department representative to Urban Studies Minor committee
- Served on college committee to develop “Renewable Energy” major and developed two course proposals for the degree
- Served on “green team” for Academic Research Building programming including green building charette.
- Member of Upstate Green Building Conference committee
- Filmed one “Going Green” segment for Office of Communications

Robert B. Hanna
- Director, N.C. Brown Center for Ultrastructure Studies through December 2010

Rafaat Hussein
- ESF Personal Safety Committee, Chair.
- ESF Work Violence Committee, member.
- Environmental Systems & Risk Management group, member.
- Participation in various campus communications such as:
  - Communication on Middle States re-accreditation.
  - Communication on Development of ESF courses.

George Kyanka
- Member, ESF Promotion and Tenure Committee
- Represented ESF at the NYS Technology Association (NYSETA) meeting

Robert W. Meyer
- Director, Tropical Timber Information Center
- Accepted appointment to be Sergeant-at-Arms for Faculty Governance
Jennifer Smith
- Member of the ESF Committee on Research (COR)
- Participated in the Faculty Governance Retreat at the College Residence, 8/27/10
- Served on an Academic Integrity meeting to hear and vote on two cases on 5/9/11

William B. Smith
- Chair, Committee on Outreach and Public Service
- SUNY ESF Wood Utilization Service, Director.

Kenneth J. Tiss
- Chaired the Academic Integrity committee and administered the process for two hearing concerning an allegation of academic dishonesty. Results were transmitted as per the established process.
- Conducted two academic honesty hearings for the College. This involved assembling the review committee, conduct the hearings and develop and transmit the final reports of the outcomes.
- Comments to SS Shannon and C. Sedgewick regarding Academic Honesty policy.
- Met with Kevin Reynolds to discuss the Academic Honesty policy and process.
- Met with Bruce Bongarten to discuss the Academic Honesty policy and 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 2010-2011 data were collected with two of the six assessment tools, Associate Constructor Examination, Part 1, and the Senior Exit Survey.

b. Results and Conclusions

1. Associate Constructor Examination

The Associate Constructor Examination was given in March 2011 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.

<table>
<thead>
<tr>
<th>Overall results 2011</th>
<th>ESF</th>
<th>National</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Candidates Tested</td>
<td>19</td>
<td>1259</td>
</tr>
<tr>
<td>Number of Candidates Passed</td>
<td>13</td>
<td>768</td>
</tr>
<tr>
<td>Number of Candidates Failed</td>
<td>6</td>
<td>491</td>
</tr>
</tbody>
</table>

![Graph showing percent passing ESF and National from 2008 to 2011]
The pass rate was 68% compared to the national pass rate of 61%. This is the first time since the exam was given at ESF that the local results exceeded the national average. The exam assessed competencies in ten areas of instruction. Nationally there were three categories of weakness, Communication Skills, Engineering Concepts, and Bidding and Estimating. Locally at ESF there was only one area of weakness based on the school average (compared to five areas of weakness last year): Communication Skills. Based on individual categories, there were two categories of weakness at ESF, communication skills and management concepts.

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 19) exhibited weaknesses in 0 to 3 categories, while students with failing scores (6 of 19) exhibited weaknesses in 5 to 10 categories.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Area of weakness (# of students)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2011</td>
</tr>
<tr>
<td>Communication Skills</td>
<td>11</td>
</tr>
<tr>
<td>Engineering Concepts</td>
<td>8</td>
</tr>
<tr>
<td>Management Concepts</td>
<td>6</td>
</tr>
<tr>
<td>Materials, Methods, and Plan Reading</td>
<td>5</td>
</tr>
<tr>
<td>Bidding and Estimating</td>
<td>5</td>
</tr>
<tr>
<td>Budgeting, Costs, and Cost Control</td>
<td>6</td>
</tr>
<tr>
<td>Planning, Scheduling and Control</td>
<td>8</td>
</tr>
<tr>
<td>Construction Safety</td>
<td>5</td>
</tr>
<tr>
<td>Surveying and Project Layout</td>
<td>1</td>
</tr>
<tr>
<td>Project Administration</td>
<td>7</td>
</tr>
</tbody>
</table>

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 < 68% pass rate, or Approaching Expectations. This is improved from last year’s pass rate of less than 60%.

For individual categories of competency, the results are:

- Exceeding expectations: > 80% pass rate:
- Meeting Expectations: > 70% and < 80% pass rate:
  - Engineering Concepts
  - Construction Safety
  - Materials, Methods, and Plan reading
  - Bidding and Estimating
This indicates that expectations are being met for eight of the ten categories. This is a significant improvement over last year in that six categories moved from <60% or <70% to >70 %, or Meeting Expectations.

2. 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. In response to specific questions about courses, there were a variety of responses that seemed to reflect different perspectives. Some of the changes that the students suggested are already being implemented in the new curriculum, but these students were not aware of that.

Suggested courses to add to the curriculum included building methods and equipment, building science, business management, business ethics, law; and BIM (building information modeling), and more courses in estimating. Many students feel that the internship should be mandatory and that it was an essential part of their education. Although many of our courses are viewed favorable, there were some negative comments about our current courses. There were several negative comments about the professional communications course, that they already know the material and it isn’t necessary. One suggestion was to replace it with a course on technical writing. There were concerns about the quality of the engineering courses; statics and mechanics, that they need improvement. There was a concern that the renewable materials course and composite products were too similar. Students consistently feel that Calculus II should be dropped.

Many students had negative comments about the general educations courses, that they were repetitive of courses from high school and that they did not relate to construction management. They felt that the professors use examples that are too focused on specific majors on campus to the exclusion of construction management, and that the course content should be more general or more inclusive and include examples that relate to all majors on campus.

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 continue to provide review and study sessions for the students to prepare them for the exam. The areas of weakness continue to be an indication of issues with instructional quality during the academic year 2007-08 when we employed a temporary lecturer.
to teach several courses. Results have improved, but we will continue to monitor each category.

2. Actions taken in response to the Senior Exit Survey

In response to the Senior Exit Survey their comments will be taken into consideration as we continue to make improvements to our curriculum. While we have a new curriculum, these students are still in the old curriculum and many of their comments have already been addressed in the new curriculum. They are not aware that these changes are going to be made.

a. Suggested courses to drop or modify, Calc II and professional communications. **Actions taken in response:** We will continue to discuss these issues at department meetings. One factor that may influence our decision is whether we pursue ACCE accreditation.

b. Suggested courses to add to the curriculum included construction methods and equipment and business management, and more courses on construction estimating. **Actions taken in response:** We will consider these changes. There is an accounting course offered at ESF this fall.

c. 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.

d. 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 continue to restructure the labs to cover all topics but without unnecessary repetition.

e. Many students felt that the internship should be mandatory and that it was an essential part of their education. **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 the internship a mandatory course until we can guarantee internship opportunities for all students.

d. Modifications of assessment plans

Action items for modifying our assessment plans for both majors:

1. 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.

2. The Capstone course needs a separate form for evaluation.

3. Student Portfolio is in progress and needs further development.
8. Progress on Objectives for 2010-2011

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 2010-11:
- The department continues to investigate a second major in building science or building materials.
- The department is investigating changes to the courses in wood products engineering concentration. As the WPE major phases out by fall 2012, new courses should be developed to better align the course content with programmatic needs in construction management, forest and natural resources management, paper science, and other programs at ESF.

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 2010-11:
- Our faculty attended many short courses and workshops to support coursework and curriculum development (see page 13).

Research Initiatives
- Initiatives: Grant Proposals; Accreditation of the Wood Engineering Lab by the International Accreditation Service

Progress 2010-11:
- Successful grant proposals to support sustainable materials research (Smith, J. and M. Driscoll).
- Participation by our faculty (co-director Jennifer Smith) in the new Institute of Sustainable Materials and Manufacturing comprising the UV/EB Technology Center and the Center for Sustainable Adhesives, Sealants, and Coatings.
- We have maintained accreditation of the WPEL by IAS.
Outreach Initiatives

Initiative: Green Building Conference
Initiative: Kiln Drying Workshop
Initiative: Speaker Series in Sustainable Construction and Renewable Materials

Progress 2010-11:
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 2010-11:
There is considerable involvement by our faculty in professional societies, SWST, CORRIM, ASC, ASCE, ACI, NEKDA, and others.

Economic Development Initiatives:

Initiative: Participation in local community programs to provide information and training for careers in construction
Initiative: Programs to support the wood products industry in New York State

Progress 2010-11:
Germain, R. and W. B. Smith. The New York Forest Community Economic Assistance Program, $100,000 U.S. Small Business Administration
Faculty participation in Career Connections community event; Paul Crovella gave a presentation on careers in construction.
Faculty met with representatives from South Side Innovation Center to discuss ways to provide instruction (workshops) in Construction Management for people in the Syracuse area.

b. Update of Departmental Strategic Plan

The 2011 Progress Report of the first four years of our five-year strategic plan is in Appendix 2. 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 2011. 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 2011

Mr. Robert P. Smith, Instructional Support Specialist and Assistant Director, N.C. Brown Center for Ultrastructure Studies
- Current as of June 2011
Appendix 2. 2011 Progress Report on the SCME Strategic Plan

Sustainable Construction Management and Engineering
July 2011 Progress Report on the SCME (CMWPE) Strategic Plan

The Department of Sustainable Construction Management and Engineering

July 2011
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 2011.

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 our students and faculty advisors an Advising Manual for Undergraduates in Construction Management was prepared in June 2010 and was posted on our webpage and sent by email to students and faculty prior to registration in mid August, November and April. The manual was updated as needed for each registration period.

A proposal was submitted to COI to separate the graduate program in ERE in to three separate programs corresponding to the three departments, CMWPE, ERFEG and PBE. State approval is pending. The proposed new program in Sustainable Construction Management and Wood Science has three options: Construction Management, Sustainable Construction, and Wood Science. We have revised the description of our graduate program to better define the entry requirements and the course requirements. The MPS in Construction Management was restructured and new courses added, to facilitate completion of the degree in one calendar year.

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. There were 87 applications for fall 2011.
- Graduate enrollment has increased slightly with four new students in January 2011
- Research productivity has shown improvement. Faculty were successful at obtaining grants especially in the area of sustainable materials.
- Our Outreach offerings continue, and many of our faculty our engaged in professional organization activities.
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:

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

Bold 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

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

Bold 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.

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

Bold 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].

Bold 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.
**Bold 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.
  - **July 2011** - The SCME handbook was updated with the new Advising Handbook (prepared by SCME Chair). The new department promotion and tenure policies are in preparation.

- **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 accessary 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

- **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.
  - **July 2011** - The Senior Exit Survey and discussion with the Chair and Provost was held April 19 2011. 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.

July 2011- The Senior Exit Survey and discussion with the Chair and Provost was held April 19 2011. The results are in the annual report. The results are part of our Outcomes Assessment Program.

**Bold 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 Crovellia 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

July 2011 - The request was submitted to the administration to replace Dr. Robert Hanna. Instead, Dr. Susan Anagnost was named Director and Robert P. Smith was named Assistant Director.
**Bold 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:


- 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-Principal Investigators.

**July 2011- Successful Proposals**
**Bold 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 offered 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 to a variety of groups; student surveys, alumni, the college administration, advisory board, and employers of our students.

July 2011-Curriculum was modified, graduate program revised, general education policy was changed. See annual report page –15
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.

July 2011

The new descriptions for the three options were submitted for the 2011-12 ESF catalog. The department changed the entry requirements and the degree requirements. The MPS program in Construction Management was modified to facilitate completion on one year. Three new course were developed by Instructor Ken Tiss for the MPS program in Construction Management to facilitate the one-year MPS

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 (Weyerhauser)

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
**Bold 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.
- **July 2011** The articulation agreements were updated. Paul Crovella visited several transfer schools to explain our new curriculum. He will continue these visits 2011-2012

- **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.
July 2011 The Chair updated the webpages to reflect programmatic changes and changes in personnel. The N.C. Brown Center webpage was revised to include rates for services and more extensive description of services and facilities. The WPEL webpage was created.

☐ 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.

July 2011 no change

☐ 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

July 2011- The undergraduate curriculum coordinator initiated discussion on ACCE accreditation in spring 2011. These discussions will continue 2011-12.

☐ 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.

July 2011-Susan Anagnost attended the CORRIM Board meeting in June 2010 in Portland, OR
**Bold 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
  
  **July 2011 Accreditation was maintained. The next review will occur in 2011-2012.**

- **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:


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-Principal Investigators.

July 2011
Eleven research proposals were submitted and two were funded; four are pending:

Smith, J.L. –seven submissions; two funded:

Driscoll, M.S., and Smith, J.L., “UV/EB Technology Center,” New York State Energy Research and Development Authority (NYSERDA), 6/28/10, $989,984, funded

Meyer, R.W. two submissions, both unsuccessful

Hussein, R.-One submission, pending

Crovella One submission, pending

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.

July 2011
**Bold 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

  **July 2011**
  - Kiln Drying Workshop January 2011
  - Green Building Conference March 2011

- **Speaker Series**
  - one speaker-spring 2007
  - one speaker fall 2008

We are planning 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**

July 2011 - The speaker series was not held this year
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; all > 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
  - 2011:
    - Freshman SAT scores ranged from 1010 to 1350; all > than 1000
    - Transfer GPA at transfer schools ranged from 2.4 to 3.9:
      - 6 with GPA between 2.5 and 2.9
      - 9 with GPA between 3.0 and 3.4
      - 5 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
  - Spring 2011: 4 transfers
  - Fall 2011: 9 Freshman and 17 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).

2010-2011 There were fewer applicants but a greater number were accepted, and greater yield than last year. There were 87 applicants for fall 2011 SCME, twelve fewer than last year. Of these, the number accepted was 39, or 44%. Of these 39 accepted students, 26 have enrolled (67% of accepts; 29 % 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 as 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 2011:

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 SCME. 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 a leave or separation, such as probation.

<table>
<thead>
<tr>
<th>TERM</th>
<th>UNDERGRADUATE ENROLLMENT</th>
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<td>Spring 2007:</td>
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<td>Fall 2007:</td>
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<td>Spring 2011:</td>
<td>73</td>
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<td>Fall 2011</td>
<td>80</td>
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</tbody>
</table>

*Two students were double majors in CM and WPE

Undergraduate enrollment for the last five years by semester.
• Graduate enrollment will increase in both programs to about 40 students
  o 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
  o 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
  o 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)
  o Actual enrollment fall 2010 18
  o Actual enrollment spring 2011 22
  o Expected Enrollment for 2011-2012 is about 20.
    □ MPS: 4
    □ MS: 7
    □ PhD: 7

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
2010-2011 We received 16 graduate applications; 11 were accepted, 4 of these enrolled; 2 were rejected; 3 incomplete.

Employment after Graduation [added May 2009]
  • Placement data
    o 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
    o 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 $43,889; range $34,000 to
        $48,000
      □ Four were attending graduate school
    o 2009-10 ESF Placement Data (data provided Spring 2011 by Office of Student Life in the
      2009 Graduating Student Survey)
      □ Of the 19 respondents, 13 were employed; 5 unemployed; one was attending
        graduate school
      □ For the 6 salary respondents, the average salary was $51,833; range $29,000 to
        $130,000
Faculty

- 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
  - Spring 2011 we initiated discussion on whether to make changes to our curriculum that would enable us to pursue ACCE accreditation

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
  - 2010-11 number of proposal submissions: 11 submitted; 2 funded; 5 not funded; 4 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
  - 2010-11 total awarded was $662,000 (190,665 + $472,487)

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
    - 2010-11 7 publications for 9 faculty 0.8 per faculty

Presentations at Professional Conferences [amended May 2009]

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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)
  - 2010-11 Proposals are pending to use department funds to purchase equipment (rehab of press, electron microscope, x-ray densitometer). We will likely purchase a new band saw for approximately $12,000 to replace the current band saw that is broken.

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
  - 2010-2011- the Speaker Series was not held

- Conferences
  - Conversations in the Disciplines March 2008