

ANNUAL REPORT: June 1, 2012 – May 31, 2013
(i.e., Summer 2012, AY 2012-2013)
DEPARTMENT OF ENVIRONMENTAL AND FOREST BIOLOGY
SUNY-ESF

NAME: John Castello

I. INSTRUCTIONAL ACTIVITIES

1. Regular Course Offerings

| | <u>Course No.</u> | <u>Title</u> | <u>Credit Hrs.</u> | <u>No. Students</u> | <u>No. of Lab. Sections</u> |
|---------|-------------------|---|--------------------|---------------------|-----------------------------|
| SUMMER: | none | | | | |
| FALL: | EFB 303 | Intro Env. Microbiology (with Nakas) | 4 | 56 | 2 |
| SPRING: | EFB 340 | Forest & Shade Tree Pathology | 3 | 31 | 3 |
| | EFB 217 | Peoples, Plagues, & Pests (alone) | 3 | 132 | 0 |

NOTE: PLEASE INDICATE WHICH COURSE(S) HAD A SERVICE-LEARNING COMPONENT AND BRIEFLY EXPLAIN THE NATURE OF THIS COMPONENT. For examples of service-learning in courses, see: <http://www.esf.edu/students/service/courses.htm>. Service-learning is a form of structured experiential education in which students engage with the community to be active learners, to enrich their sense of civic responsibility, and to explore practical application for course content. Faculty oversight, reflective thinking, and reciprocity are key components of service-learning.

2. Non-Scheduled Course Offerings (e.g., 496, 899, 999)

| | <u>Course No.</u> | <u>Title</u> | <u>Credit Hrs.</u> | <u>No. Students</u> |
|--|-------------------|--------------------------------|--------------------|---------------------|
| | EFB 999 | PhD research | 15 | one |
| | EFB 899 | MS research | 8 | one |
| | EFB 494 | Senior synthesis Forest Health | 1 | three |
| | EFB 495 | Undergrad teaching | 3 | two |
| | EFB 498 | Independent study | 5 | one |

3. Continuing Education and Extension (short courses, workshops, etc.)

4. Guest Lecture Activities

| | <u>Course No.</u> | <u>Title</u> | <u>No. of Lectures</u> |
|--|-------------------|---------------------------------|------------------------------|
| | EFB 210 | Diversity of Life (team taught) | (2 lectures + lab presented) |

II. STUDENT ADVISING

- A. Number of undergraduates for whom you are the student's official advisor _18____ and unofficial advisor _____
- B. Graduate Students: (list name, degree sought, starting date, month & year; if a degree was completed, please give date and full citation for the thesis or dissertation).

MAJOR PROFESSOR

Jonathan Cale, Ph.D, January 2011. Completed candidacy exam in April 2013.
Justin West, MS, September 2011

CO-MAJOR PROFESSOR

MEMBER, STEERING COMMITTEE (other than those listed above)

CHAIRMAN OR READER ON THESIS EXAMS, ETC.

III. RESEARCH COMPLETED OR UNDERWAY

A. Departmental Research (unsupported, boot-legged; title - % time spent)

B. 1. Grant-supported Research (source, subject, amount - total award and current year, award period starting and ending dates; list graduate research assistants supported by each grant)

M. Johnston (PI), J. Castello, and S.A. Teale (co-PIs). 2011-2013. Fresh taste from a stale pickle: An alternate perception of beech bark disease. McIntire-Stennis Research Grant. \$53,590 to commence in August 2011- August 2013. (Jon Cale & J. West are supported on this project).

2. Research Proposals pending (include information as in B.1., above).

3. Research Proposals submitted, but rejected (include information as in B.1., above)

Castello, J.D. (PI), Teale, S.A., and Johnston, M. (co-PIs). 2013-2015. Linking environmental stressors to beech bark disease. Forest Health and Protection-Special Technology Development Program. \$130,527.

Castello, J.D. (PI), Teale, S.A., and Johnston, M. (co-PIs). 2013-2015. Linking environmental stressors to beech bark disease. Forest Health and Protection-Evaluation Monitoring Program. \$130,527.

IV. PUBLICATIONS (Full bibliographic citation, i.e., do not use "with Jones," or "Jones, et al."; please list only publications published, in press, or actually submitted during this reporting period --- **do not list manuscripts in preparation**).

A. Refereed Publications

Cale, J.A., McNulty, S. A., Teale, S.A., and Castello, J.D. 2013 The impact of beech thickets on northern hardwood forest biodiversity. Biol. Invasions DOI10.1007/s10530-012-0319-5.

Cale, J.A., West, J.L., Zhang, L., Teale, S.A., and Castello, J.D. 2013. Toward a universal index of forest sustainability. Forest Science (in review).

B. Non-refereed Publications

C. Papers Presented at Science Meetings (give title, date, occasion, and location)

D. Public Service Presentations (lectures, seminars, etc. to and for the public; give group or occasion, date(s), and attendance)

March 13, 2013- Invited lecture- on Forest Health: An Integrated Perspective, Northern Arizona University, School of Forestry

V. PUBLIC SERVICE

A. Funded Service (include consulting activities)

1. Government Agencies (Federal, State, Local):

2. Industrial and Commercial Groups, etc.

B. Unfunded Service to Governmental Agencies, Public Interest Groups, etc.

VI. PROFESSIONAL DEVELOPMENT

A. Professional Honors and Awards (for teaching, research, outreach, etc.)

B. 1. Activities in Professional Organizations (offices held, service as chairman, member, participant or consultant)

2. Professional Society Membership

3. Other Professional Activities

a. Editorial activity

Journal (s)

Responsibility

Other (books, symposia, etc.)

b. Reviewer

Journal(s)

No. of manuscripts

Forestry Chronicle
Agency

one
No. of proposals

Other

c. Participation (workshops, symposia, etc.)

Name of workshop, etc.

Date

Place

C. Further Education/Re-training Undertaken, Leaves, Workshops, etc.

D. Foreign Travel (Where, When, Purpose)

VII. ADMINISTRATIVE AND SERVICE RESPONSIBILITIES (include committee participation)

A. Department-level

- Chairman of the departmental Promotion and Tenure Committee
- Coordinator of the Forest Health major
- Faculty coordinator of the 2013 departmental spring awards ceremony
- Unofficial EFB faculty point person for departmental autoclaves.
- Associate Chair

B. College-level

C. University-wide, including Research Foundation

VIII. SUMMARY OF SIGNIFICANT ACTIVITIES AND ACCOMPLISHMENTS DURING THIS REPORTING PERIOD, ESPECIALLY THOSE MOST NOTEWORTHY AND RELATIVE TO THE COLLEGE'S AND DEPARTMENT'S MISSION.

One paragraph on each of the following (**i.e., three paragraphs total**) would be most helpful: this past year, what have you done for our students, department/college, and self professionally? NOTE: The information in this section (along with the supporting specific information elsewhere in this report) should be your strongest case for being

considered for a discretionary raise (when available), which I'll continue to award based on your contributions to the department and college this reporting period.

I have been actively engaged as Chair of the departmental P/T Committee to revise the departmental protocol for evaluation of faculty for promotion and tenure decisions, and to assess faculty/departmental productivity over time. A retreat was held in May to seek departmental faculty input on fine tuning the protocol with the intent of bringing it to a faculty vote this coming semester.

I am still attempting to publish my manuscripts utilizing our baseline mortality method to evaluate forest mortality attributed to climate change. I was unsuccessful in getting it published in *Frontiers in Ecology and the Environment*, *PLOS ONE*, and *J. Appl. Ecol.* The manuscript currently is in review in *Forest Science*. I hope to get it published soon as well as other manuscripts, to continue with my plans to fund a large study utilizing the method to evaluate forest health worldwide.

IX. A. FUTURE PLANS, AMBITIONS, AND POTENTIAL CONTRIBUTIONS FOR YOUR OWN PROFESSIONAL DEVELOPMENT AND THE ENHANCEMENT OF THE PROGRAM IN ENVIRONMENTAL AND FOREST BIOLOGY (brief summary)

See below

B. PROJECTED ACTIVITIES FOR NEXT YEAR

During the coming academic year, which includes a sabbatical leave in the spring semester, I intend to focus on research productivity. There are several mss that need to be submitted for publication as the current BBD research comes to an end. In addition, there are additional mss on my baseline mortality work that need to be submitted for publication. I also intend to submit at least two research proposals (one on BBD and one on baseline mortality) to continue my research on these topics.

1. Summer 2013

a. Course(s) to be offered

-EFB 345 Forest Health

b. Proposed research activity

-Finish my BBD research with Steve Teale, Mariann Johnston, Jon Cale and Justin West

-Write new research proposals to continue the BBD and baseline mortality research.

-Submit manuscripts on BBD and baseline mortality work completed to date.

c. University, professional society, and public service

2. Fall Semester 2013

a. Course(s) to be offered

b. Proposed research activity

-See above

c. University, Professional society, and public service

-Guide the new P/T evaluation protocol through to acceptance by the faculty.

-continue to serve as Associate Chair

3. Spring Semester 2014: Sabbatical leave

a. Course(s) to be offered

-none

b. Proposed research activity

-see above

c. University, professional society, and public service