

ANNUAL REPORT: June 1, 2009 – May 31, 2010
(i.e., Summer 2009, AY 2009-2010)
DEPARTMENT OF ENVIRONMENTAL AND FOREST BIOLOGY
SUNY-ESF

NAME: William M Shields

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:					
FALL:	ESF 109	Freshman Honors Seminar	1	35	1
	EFB 296	Sophomore Honors Seminar	1	14	1
SPRING:	EFB 480	Animal Behavior	4	45	6

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. EFB courses currently listed with service-learning components include: 416/6/1, 486, 518, 521, 532, 446/646.

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 420	Internships	18	5
EFB 498	Research	5	2
EFB 798	Animal Behavior Research	12	3
EFB 798	Research	3	1
EFB 899	Master's Thesis Research	21	2
EFB 999	Ph.D. research	16	3

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

Project Advance for Secondary Science Teachers: Course on Forensic Science. Syracuse University, Lectures on: Forensic Science and the Law, and 2. Forensic DNA Technology. July 2008.

4. Guest Lecture Activities

<u>Course No.</u>	<u>Title</u>	<u>No. of Lectures</u>
SCE 614	Nature of Science in Science Education	1
	Freshman Orientation: Discussion leader on book	2

II. STUDENT ADVISING

- A. Number of undergraduates for whom you are the student's official advisor 26 and unofficial advisor 7
- B. Graduate Students: (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

1. C.J. Hazell, Ph. D. Ecology of wolves and Jackals in Kyrgistan, began 9/2001 should finish 12/10.
2. Jose Valdez, M.S. European Crow Behavioral Ecology, Begun 09/08 Expected finish 05/10.
3. J. Braunmiller, MS No project yet- part time.
4. Byron Norelius, MPS. 8/10
5. Jason Townsend, Ph.D. Ecology & Conservation of Bicknell's Thrush. Began 9/05, Expected finish in 05/10. Part year switched to Gibbs.

CO-MAJOR PROFESSOR

1. William Helenbrook, PH. D. Ecology and Genetics of Primates and their Parasites. Began September 2007, Expected finish 05/12 with Chris Whipps.
2. Amanda Dillon, M.S. Ecology and Behavior of Native Bees, Begun 5/07, Expected finish 12/10 with B. Hager.

MEMBER, STEERING COMMITTEE (other than those listed above)

CHAIRMAN OR READER ON THESIS EXAMS, ETC.

One exam don't remember name.

III. RESEARCH COMPLETED OR UNDERWAY

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

Research in Forensic Science & Statistics	5%
Research in Behavioral Ecology	10%

Research on Dragonfly Ecology and Behavior
Research on Teaching Field Biology

10%
25%

- 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)

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

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

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

Krane, D. E., D. Balding, V. Bahn, B. Barlow, H. Cash, B. L. DesPortes, P. D'Eustachio, K. Devlin, T. E. Doom, I. Dror, S. Ford, C. Funk, J. Gilder, G. Hampikian, K. Inman, A. Jamieson, P. E. Kent, R. Koppl, I. Kornfield, S. Krinsky, J. Mnookin, L. Mueller, E. Murphy, D. R. Paoletti, D. A. Petrov, M. Raymer, D. M. Risinger, A. Roth, N. Rudin, W. Shields, J. A. Siegel, M. Slatkin, Y. S. Song, T. Speed, C. Spiegelman, P. Sullivan, A. R. Swinton, T. Tarpey, W. C. Thompson, E. Ungvarsky, S. Zabell. 2009. Time for DNA Disclosure. Letter to the Editor. *Science*. 326:1631-1632.

Gilder, J. R., K. Inman, W. Shields, and D. E. Krane, 2010. Magnitude dependant variation in peak height balance at heterozygous STR loci. *Intl. Journal Legal Medicine*. In Press.

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)

V. PUBLIC SERVICE

A. Funded Service (include consulting activities)

1. Government Agencies (Federal, State, Local): Consulting on Forensic DNA

2. Industrial and Commercial Groups, etc.: Consulting on Forensic DNA

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

Board of Directors (1996-) and Treasurer (1996-2001), Melinda Gray Ardia Environmental Education Foundation, P.O. Box 621, Skaneateles, New York 13152.

Pro Bono consulting and expert witness for various individuals and entities including the Alliance of Families of MIA's and POW's, the Russian Orthodox Church, and the Innocence Project.

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

American Ornithologists Union
American Society of Naturalists
Animal Behavior Society

3. Other Professional Activities

a. Editorial activity

Journal (s)

Responsibility

Other (books, symposia, etc.)

b. Reviewer

Journal(s)

No. of manuscripts

Animal Behavior

2

Agency

No. of proposals

NSF

1

Other

c. Participation (workshops, symposia, etc.)

Name of workshop, etc.

Date

Place

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

Invited Participant: Workshop on the use of forensic databases in population biology. Las Vegas, NV, October 2009

D. Foreign Travel (Where, When, Purpose)

None

VII. ADMINISTRATIVE AND SERVICE RESPONSIBILITIES (include committee participation)

A. Department-level

Field Studies Coordinator
Member, Graduate Program Advisory Committee
Acting Director, CLBS various dates.
Judge for EFB 202 presentations

B. College-level

EFB representative to Honors Council

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 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, which I'll continue to award based on your contributions to the department and college this reporting period.

I continue in the same vein. I added the sophomore honors seminar to my plate for the first time and it went well. I had 13 finish the course and we all had a rewarding experience. Barb and I finished about half of our book so that is on time. More work on this gets done in the summer when we both have more time and live in the same house. I published 2 papers related to forensic DNA one in Science with a group of prominent researchers to change the way the FBI handles scientific information. I taught Behavior again this spring with a surprise in enrollment (only 44 students). Perhaps because of class size I received the best reviews of the course ever. About 25% of the students claimed it as the best course ever or at ESF (in one case at ESF or SU). I continue to act as official and unofficial

advisor for a number of undergraduates and enroll lots of students in EFB 420 and 498. I have accepted fewer graduate students in order to free time to write the 2 books that are underway or planned.

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)

More of the same I guess I'm in a rut. More writing on Australia book and adaptation book. Continue long standing forensic DNA and dragonfly research. The latter will result in publications this year. I resigned from GPAC mostly because I disagree with some of the things they are planning to recommend as department policy. I am thinking of giving up my connection to the honors courses, as there are now more than enough Distinguished professors of all types to take up the banner. I am sure the Distinguished teaching professors would do even a better job than I do.

B. PROJECTED ACTIVITIES FOR NEXT YEAR

1. Summer 2009

Course(s) to be offered: Research and thesis courses

b. Proposed research activity
Same as usual

c. University, professional society, and public service
Same as usual

2. Fall Semester 2009: same as last year

a. Course(s) to be offered

b. Proposed research activity

c. University, Professional society, and public service

3. Spring Semester 2010: same as last year.

a. Course(s) to be offered

b. Proposed research activity

c. University, professional society, and public service