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Return of Private Foundation
or Section 4947(a)(1) Nonexempt Charitable Trust
Treated as a Private Foundation

Note. The foundation may be able to use a copy of this return to satisfy state reporting requirements.

2009

For calendar year 2009, or tax year beginning

, 2009, and ending

, 20

G Check all that apply. ☐ Initial return ☐ Initial return of a former public charity ☐ Final return
☐ Amended return ☒ Address change ☐ Name change

Use the IRS label. Otherwise, print or type. See Specific Instructions.	Name of foundation Ichauway, Inc.		A Employer identification number 58-1824778
	Number and street (or P O box number if mail is not delivered to street address) Room/suite 3988 Jones Center Drive		B Telephone number (see page 10 of the instructions) 229 734-4706
	City or town, state, and ZIP code Newton, GA 39870		C If exemption application is pending, check here ☐
	H Check type of organization. ☒ Section 501(c)(3) exempt private foundation ☐ Section 4947(a)(1) nonexempt charitable trust ☐ Other taxable private foundation		D 1. Foreign organizations, check here ☐ 2. Foreign organizations meeting the 85% test, check here and attach computation ☐
I Fair market value of all assets at end of year (from Part II, col. (c), line 16) ▶ \$ 14,549,193		J Accounting method: ☐ Cash ☒ Accrual ☐ Other (specify) _____	E If private foundation status was terminated under section 507(b)(1)(A), check here ☐
			F If the foundation is in a 60-month termination under section 507(b)(1)(B), check here ☐

Part I Analysis of Revenue and Expenses (The total of amounts in columns (b), (c), and (d) may not necessarily equal the amounts in column (a) (see page 11 of the instructions))		(a) Revenue and expenses per books	(b) Net investment income	(c) Adjusted net income	(d) Disbursements for charitable purposes (cash basis only)
1	Contributions, gifts, grants, etc., received (attach schedule)	16,953,210			
2	Check ☐ if the foundation is not required to attach Sch. B				
3	Interest on savings and temporary cash investments	21,208	21,208	21,208	
4	Dividends and interest from securities	0	0	0	
5a	Gross rents	240	240	240	
b	Net rental income or (loss)	240			
6a	Net gain or (loss) from sale of assets not on line 10	1,301			
b	Gross sales price for all assets on line 6a	1,301			
7	Capital gain net income (from Part IV, line 2)		0		
8	Net short-term capital gain			0	
9	Income modifications			0	
10a	Gross sales less returns and allowances	0			
b	Less: Cost of goods sold	0			
c	Gross profit or (loss) (attach schedule)	0		0	
11	Other income (attach schedule)	125,226	0	0	
12	Total. Add lines 1 through 11	17,101,185	21,448	21,448	
13	Compensation of officers, directors, trustees, etc.	0	0	0	0
14	Other employee salaries and wages	4,080,167	68,320	68,320	4,154,759
15	Pension plans, employee benefits	1,434,316	23,912	23,912	1,432,009
16a	Legal fees (attach schedule)	1,050	0	0	1,050
b	Accounting fees (attach schedule)	29,437	10,303	10,303	19,134
c	Other professional fees (attach schedule)	175,785	8,000	8,000	165,033
17	Interest	0	0	0	0
18	Taxes (attach schedule) (see page 14 of the instructions)	126,870	0	0	127,027
19	Depreciation (attach schedule) and depletion	539,918	0	0	
20	Occupancy	349,154	0	0	353,849
21	Travel, conferences, and meetings	132,852	0	0	131,304
22	Printing and publications	22,293	0	0	22,276
23	Other expenses (attach schedule)	1,474,705	0	0	1,501,282
24	Total operating and administrative expenses. Add lines 13 through 23	8,366,547	110,535	110,535	7,907,723
25	Contributions, gifts, grants paid	131,879			123,970
26	Total expenses and disbursements. Add lines 24 and 25	8,498,426	110,535	110,535	8,031,693
27	Subtract line 26 from line 12	8,602,759			
a	Excess of revenue over expenses and disbursements				
b	Net investment income (if negative, enter -0-)		0		
c	Adjusted net income (if negative, enter -0-)			0	

Part II Balance Sheets		Attached schedules and amounts in the description column should be for end-of-year amounts only (See instructions)		Beginning of year	End of year	
		(a) Book Value	(b) Book Value	(c) Fair Market Value		
Assets	1.	Cash—non-interest-bearing		57,522	65,720	65,720
	2.	Savings and temporary cash investments		2,285,512	11,338,721	11,338,721
	3.	Accounts receivable ▶	0			
		Less: allowance for doubtful accounts ▶	0	0	0	0
	4.	Pledges receivable ▶	0			
		Less: allowance for doubtful accounts ▶	0	0	0	0
	5.	Grants receivable		161,581	137,713	137,713
	6.	Receivables due from officers, directors, trustees, and other disqualified persons (attach schedule) (see page 16 of the instructions)		0	0	0
	7.	Other notes and loans receivable (attach schedule) ▶	0			
		Less: allowance for doubtful accounts ▶	0	0	0	0
	8.	Inventories for sale or use		0	0	0
	9.	Prepaid expenses and deferred charges		235,219	68,061	68,061
	10a.	Investments—U.S. and state government obligations (attach schedule)		0	0	0
	b.	Investments—corporate stock (attach schedule)		0	0	0
	c.	Investments—corporate bonds (attach schedule)		0	0	0
	11.	Investments—land, buildings, and equipment: basis ▶	0			
	Less: accumulated depreciation (attach schedule) ▶	0	0	0	0	
12.	Investments—mortgage loans		0	0	0	
13.	Investments—other (attach schedule)		0	0	0	
14.	Land, buildings, and equipment: basis ▶	17,079,273				
	Less: accumulated depreciation (attach schedule) ▶	14,140,295	3,290,356	2,938,978	2,938,978	
15.	Other assets (describe ▶)		0	0	0	
16.	Total assets (to be completed by all filers—see the instructions. Also, see page 1, item I)		6,030,190	14,549,193	14,549,193	
Liabilities	17.	Accounts payable and accrued expenses		521,983	333,704	
	18.	Grants payable		0	0	
	19.	Deferred revenue		23,582	128,105	
	20.	Loans from officers, directors, trustees, and other disqualified persons		0	0	
	21.	Mortgages and other notes payable (attach schedule)		0	0	
	22.	Other liabilities (describe ▶)		0	0	
	23.	Total liabilities (add lines 17 through 22)		545,565	461,809	
Net Assets or Fund Balances	Foundations that follow SFAS 117, check here ▶ ☒ and complete lines 24 through 26 and lines 30 and 31.					
	24.	Unrestricted		5,484,625	6,087,384	
	25.	Temporarily restricted		0	8,000,000	
	26.	Permanently restricted		0	0	
	Foundations that do not follow SFAS 117, check here ▶ ☐ and complete lines 27 through 31.					
	27.	Capital stock, trust principal, or current funds				
	28.	Paid-in or capital surplus, or land, bldg., and equipment fund				
	29.	Retained earnings, accumulated income, endowment, or other funds				
	30.	Total net assets or fund balances (see page 17 of the instructions)		5,484,625	14,087,384	
	31.	Total liabilities and net assets/fund balances (see page 17 of the instructions)		6,030,190	14,549,193	

Part III Analysis of Changes in Net Assets or Fund Balances

1	Total net assets or fund balances at beginning of year—Part II, column (a), line 30 (must agree with end-of-year figure reported on prior year's return)	1	5,484,625
2	Enter amount from Part I, line 27a	2	8,602,759
3	Other increases not included in line 2 (itemize) ▶	3	0
4	Add lines 1, 2, and 3	4	14,087,384
5	Decreases not included in line 2 (itemize) ▶	5	0
6	Total net assets or fund balances at end of year (line 4 minus line 5)—Part II, column (b), line 30	6	14,087,384

Part IV Capital Gains and Losses for Tax on Investment Income

(a) List and describe the kind(s) of property sold (e.g., real estate, 2-story brick warehouse, or common stock, 200 shs MLC Co.)		(b) How acquired P—Purchase D—Donation	(c) Date acquired (mo., day, yr.)	(d) Date sold (mo., day, yr.)
1a				
b				
c				
d				
e				

(e) Gross sales price	(f) Depreciation allowed (or allowable)	(g) Cost or other basis plus expense of sale	(h) Gain or (loss) (e) plus (f) minus (g)
a 0	b 0	c 0	d 0
b 0	c 0	d 0	e 0
c 0	d 0	e 0	f 0
d 0	e 0	f 0	g 0
e 0	f 0	g 0	h 0

Complete only for assets showing gain in column (h) and owned by the foundation on 12/31/69

(i) FMV as of 12/31/69	(j) Adjusted basis as of 12/31/69	(k) Excess of col (i) over col (j), if any	(l) Gains (Col (h) gain minus col (k), but not less than -0-) or Losses (from col (h))
a 0	b 0	c 0	d 0
b 0	c 0	d 0	e 0
c 0	d 0	e 0	f 0
d 0	e 0	f 0	g 0
e 0	f 0	g 0	h 0

2 Capital gain net income or (net capital loss) { If gain, also enter in Part I, line 7 If (loss), enter -0- in Part I, line 7 }	2	0
3 Net short-term capital gain or (loss) as defined in sections 1222(5) and (6): If gain, also enter in Part I, line 8, column (c) (see pages 13 and 17 of the instructions). If (loss), enter -0- in Part I, line 8	3	0

Part V Qualification Under Section 4940(e) for Reduced Tax on Net Investment Income

(For optional use by domestic private foundations subject to the section 4940(a) tax on net investment income.)

If section 4940(d)(2) applies, leave this part blank.

Was the foundation liable for the section 4942 tax on the distributable amount of any year in the base period? ☐ Yes ☒ No

If "Yes," the foundation does not qualify under section 4940(e). Do not complete this part.

1 Enter the appropriate amount in each column for each year; see page 18 of the instructions before making any entries.

(a) Base period years Calendar year (or tax year beginning in)	(b) Adjusted qualifying distributions	(c) Net value of noncharitable-use assets	(d) Distribution ratio (col (b) divided by col (c))
2008	8,390,502	1,000,000	8.390502
2007	8,603,383	1,000,000	8.603383
2006	8,015,180	1,000,000	8.015180
2005	7,803,184	1,000,000	7.803184
2004	7,689,811	1,000,000	7.689811

2 Total of line 1, column (d)	2	40.502060
3 Average distribution ratio for the 5-year base period—divide the total on line 2 by 5, or by the number of years the foundation has been in existence if less than 5 years	3	8.100412
4 Enter the net value of noncharitable-use assets for 2009 from Part X, line 5	4	1,000,000
5 Multiply line 4 by line 3	5	8,100,412
6 Enter 1% of net investment income (1% of Part I, line 27b)	6	0
7 Add lines 5 and 6	7	8,100,412
8 Enter qualifying distributions from Part XII, line 4 If line 8 is equal to or greater than line 7, check the box in Part VI, line 1b, and complete that part using a 1% tax rate. See the Part VI instructions on page 18.	8	8,220,233

Part VI Excise Tax Based on Investment Income (Section 4940(a), 4940(b), 4940(e), or 4948—see page 18 of the instructions)

1a	Exempt operating foundations described in section 4940(d)(2), check here ☐ and enter "N/A" on line 1. Date of ruling or determination letter: _____ (attach copy of letter if necessary—see instructions)			
b	Domestic foundations that meet the section 4940(e) requirements in Part V, check here ☐ and enter 1% of Part I, line 27b	1		0
c	All other domestic foundations enter 2% of line 27b. Exempt foreign organizations enter 4% of Part I, line 12, col. (b)			
2	Tax under section 511 (domestic section 4947(a)(1) trusts and taxable foundations only. Others enter -0-)	2		0
3	Add lines 1 and 2	3		0
4	Subtitle A (income) tax (domestic section 4947(a)(1) trusts and taxable foundations only. Others enter -0-)	4		0
5	Tax based on investment income. Subtract line 4 from line 3. If zero or less, enter -0-	5		0
6	Credits/Payments:			
a	2009 estimated tax payments and 2008 overpayment credited to 2009	6a		0
b	Exempt foreign organizations—tax withheld at source	6b		0
c	Tax paid with application for extension of time to file (Form 8868)	6c		0
d	Backup withholding erroneously withheld	6d		0
7	Total credits and payments. Add lines 6a through 6d	7		0
8	Enter any penalty for underpayment of estimated tax. Check here ☐ if Form 2220 is attached	8		0
9	Tax due. If the total of lines 5 and 8 is more than line 7, enter amount owed	9		0
10	Overpayment. If line 7 is more than the total of lines 5 and 8, enter the amount overpaid	10		0
11	Enter the amount of line 10 to be: Credited to 2010 estimated tax 0 Refunded	11		0

Part VII-A Statements Regarding Activities

	Yes	No
1a During the tax year, did the foundation attempt to influence any national, state, or local legislation or did it participate or intervene in any political campaign?		✓
b Did it spend more than \$100 during the year (either directly or indirectly) for political purposes (see page 19 of the instructions for definition)? <i>If the answer is "Yes" to 1a or 1b, attach a detailed description of the activities and copies of any materials published or distributed by the foundation in connection with the activities.</i>		✓
c Did the foundation file Form 1120-POL for this year?		✓
d Enter the amount (if any) of tax on political expenditures (section 4955) imposed during the year: (1) On the foundation ▶ \$ 0 (2) On foundation managers. ▶ \$ 0		
e Enter the reimbursement (if any) paid by the foundation during the year for political expenditure tax imposed on foundation managers. ▶ \$ 0		
2 Has the foundation engaged in any activities that have not previously been reported to the IRS? <i>If "Yes," attach a detailed description of the activities.</i>		✓
3 Has the foundation made any changes, not previously reported to the IRS, in its governing instrument, articles of incorporation, or bylaws, or other similar instruments? <i>If "Yes," attach a conformed copy of the changes</i>		✓
4a Did the foundation have unrelated business gross income of \$1,000 or more during the year?		✓
b If "Yes," has it filed a tax return on Form 990-T for this year?	N/A	
5 Was there a liquidation, termination, dissolution, or substantial contraction during the year? <i>If "Yes," attach the statement required by General Instruction T.</i>		✓
6 Are the requirements of section 508(e) (relating to sections 4941 through 4945) satisfied either: • By language in the governing instrument, or • By state legislation that effectively amends the governing instrument so that no mandatory directions that conflict with the state law remain in the governing instrument?	✓	
7 Did the foundation have at least \$5,000 in assets at any time during the year? <i>If "Yes," complete Part II, col. (c), and Part XIV</i>	✓	
8a Enter the states to which the foundation reports or with which it is registered (see page 19 of the instructions) ▶ GA		
b If the answer is "Yes" to line 7, has the foundation furnished a copy of Form 990-PF to the Attorney General (or designate) of each state as required by <i>General Instruction G</i> ? <i>If "No," attach explanation</i>	✓	
9 Is the foundation claiming status as a private operating foundation within the meaning of section 4942(j)(3) or 4942(j)(5) for calendar year 2009 or the taxable year beginning in 2009 (see instructions for Part XIV on page 27)? <i>If "Yes," complete Part XIV</i>	✓	
10 Did any persons become substantial contributors during the tax year? <i>If "Yes," attach a schedule listing their names and addresses</i>		✓

Part VII-A Statements Regarding Activities (continued)

11	At any time during the year, did the foundation, directly or indirectly, own a controlled entity within the meaning of section 512(b)(13)? If "Yes," attach schedule (see page 20 of the instructions)	11		✓
12	Did the foundation acquire a direct or indirect interest in any applicable insurance contract before August 17, 2008?	12		✓
13	Did the foundation comply with the public inspection requirements for its annual returns and exemption application? Website address ▶ N/A	13	✓	
14	The books are in care of ▶ P.Russell Hardin Telephone no. ▶ 404 522-6755 Located at ▶ 50 Hurt Plaza Suite 1200 Atlanta, GA ZIP+4 ▶ 30303			
15	Section 4947(a)(1) nonexempt charitable trusts filing Form 990-PF in lieu of Form 1041—Check here. ▶ ☐ and enter the amount of tax-exempt interest received or accrued during the year ▶ 15 N/A			

Part VII-B Statements Regarding Activities for Which Form 4720 May Be Required

File Form 4720 if any item is checked in the "Yes" column, unless an exception applies.

	Yes	No
1a During the year did the foundation (either directly or indirectly):		
(1) Engage in the sale or exchange, or leasing of property with a disqualified person? ☐ Yes ☒ No		
(2) Borrow money from, lend money to, or otherwise extend credit to (or accept it from) a disqualified person? ☐ Yes ☒ No		
(3) Furnish goods, services, or facilities to (or accept them from) a disqualified person? ☒ Yes ☐ No		
(4) Pay compensation to, or pay or reimburse the expenses of, a disqualified person? ☒ Yes ☐ No		
(5) Transfer any income or assets to a disqualified person (or make any of either available for the benefit or use of a disqualified person)? ☐ Yes ☒ No		
(6) Agree to pay money or property to a government official? (Exception. Check "No" if the foundation agreed to make a grant to or to employ the official for a period after termination of government service, if terminating within 90 days) ☐ Yes ☒ No		
b If any answer is "Yes" to 1a(1)–(6), did any of the acts fail to qualify under the exceptions described in Regulations section 53.4941(d)-3 or in a current notice regarding disaster assistance (see page 20 of the instructions)? ☐ Organizations relying on a current notice regarding disaster assistance check here ▶ ☐	1b	✓
c Did the foundation engage in a prior year in any of the acts described in 1a, other than excepted acts, that were not corrected before the first day of the tax year beginning in 2009?	1c	✓
2 Taxes on failure to distribute income (section 4942) (does not apply for years the foundation was a private operating foundation defined in section 4942(j)(3) or 4942(j)(5)):		
a At the end of tax year 2009, did the foundation have any undistributed income (lines 6d and 6e, Part XIII) for tax year(s) beginning before 2009? ☐ Yes ☒ No If "Yes," list the years ▶ 20____, 20____, 20____, 20____		
b Are there any years listed in 2a for which the foundation is not applying the provisions of section 4942(a)(2) (relating to incorrect valuation of assets) to the year's undistributed income? (If applying section 4942(a)(2) to all years listed, answer "No" and attach statement—see page 20 of the instructions.)	2b	N/A
c If the provisions of section 4942(a)(2) are being applied to any of the years listed in 2a, list the years here. ▶ 20____, 20____, 20____, 20____		
3a Did the foundation hold more than a 2% direct or indirect interest in any business enterprise at any time during the year? ☐ Yes ☒ No		
b If "Yes," did it have excess business holdings in 2009 as a result of (1) any purchase by the foundation or disqualified persons after May 26, 1969; (2) the lapse of the 5-year period (or longer period approved by the Commissioner under section 4943(c)(7)) to dispose of holdings acquired by gift or bequest; or (3) the lapse of the 10-, 15-, or 20-year first phase holding period? (Use Schedule C, Form 4720, to determine if the foundation had excess business holdings in 2009.)	3b	N/A
4a Did the foundation invest during the year any amount in a manner that would jeopardize its charitable purposes?	4a	✓
b Did the foundation make any investment in a prior year (but after December 31, 1969) that could jeopardize its charitable purpose that had not been removed from jeopardy before the first day of the tax year beginning in 2009?	4b	✓

Part VII-B Statements Regarding Activities for Which Form 4720 May Be Required (continued)**5a** During the year did the foundation pay or incur any amount to:(1) Carry on propaganda, or otherwise attempt to influence legislation (section 4945(e))? ☐ Yes ☒ No(2) Influence the outcome of any specific public election (see section 4955); or to carry on, directly or indirectly, any voter registration drive? ☐ Yes ☒ No(3) Provide a grant to an individual for travel, study, or other similar purposes? ☐ Yes ☒ No(4) Provide a grant to an organization other than a charitable, etc., organization described in section 509(a)(1), (2), or (3), or section 4940(d)(2)? (see page 22 of the instructions) ☐ Yes ☒ No(5) Provide for any purpose other than religious, charitable, scientific, literary, or educational purposes, or for the prevention of cruelty to children or animals? ☐ Yes ☒ No**b** If any answer is "Yes" to 5a(1)–(5), did any of the transactions fail to qualify under the exceptions described in Regulations section 53.4945 or in a current notice regarding disaster assistance (see page 22 of the instructions)? **5b** N/AOrganizations relying on a current notice regarding disaster assistance check here ☐**c** If the answer is "Yes" to question 5a(4), does the foundation claim exemption from the tax because it maintained expenditure responsibility for the grant? ☐ Yes ☐ No

If "Yes," attach the statement required by Regulations section 53.4945–5(d).

6a Did the foundation, during the year, receive any funds, directly or indirectly, to pay premiums on a personal benefit contract? ☐ Yes ☒ No**b** Did the foundation, during the year, pay premiums, directly or indirectly, on a personal benefit contract? **6b** ☒

If "Yes" to 6b, file Form 8870.

7a At any time during the tax year, was the foundation a party to a prohibited tax shelter transaction? ☐ Yes ☒ No**b** If yes, did the foundation receive any proceeds or have any net income attributable to the transaction? **7b** N/A**Part VIII Information About Officers, Directors, Trustees, Foundation Managers, Highly Paid Employees, and Contractors****1 List all officers, directors, trustees, foundation managers and their compensation (see page 22 of the instructions).**

(a) Name and address	(b) Title, and average hours per week devoted to position	(c) Compensation (If not paid, enter -0-)	(d) Contributions to employee benefit plans and deferred compensation	(e) Expense account, other allowances
See attached statement				

2 Compensation of five highest-paid employees (other than those included on line 1—see page 23 of the instructions). If none, enter "NONE."

(a) Name and address of each employee paid more than \$50,000	(b) Title, and average hours per week devoted to position	(c) Compensation	(d) Contributions to employee benefit plans and deferred compensation	(e) Expense account, other allowances
Lindsay R. Boring 3988 Jones Center Drive Newton, GA 39870	Director 40.00	189,000	15,744	9,600
Robert J. Mitchell 3988 Jones Center Drive Newton, GA 39870	Scientist 40.00	152,781	12,727	0
James B. Atkinson 3988 Jones Center Drive Newton, GA 39870	Nat. Res. Manager 40.00	114,546	9,542	0
Becky H. Gay 3988 Jones Center Drive Newton, GA 39870	Bus. Administrator 40.00	108,493	9,037	0
Stephen W. Golladay 3988 Jones Center Drive Newton, GA 39870	Scientist 40.00	107,103	8,922	0
Total number of other employees paid over \$50,000				20

Part VIII Information About Officers, Directors, Trustees, Foundation Managers, Highly Paid Employees, and Contractors (continued)**3 Five highest-paid independent contractors for professional services** (see page 23 of the instructions). If none, enter "NONE."

(a) Name and address of each person paid more than \$50,000	(b) Type of service	(c) Compensation
None		

Total number of others receiving over \$50,000 for professional services 0

Part IX-A Summary of Direct Charitable Activities

List the foundation's four largest direct charitable activities during the tax year. Include relevant statistical information such as the number of organizations and other beneficiaries served, conferences convened, research papers produced, etc.

	Expenses
1 Substantially all of the foundation's resources are devoted to the environmental research, education, and conservation programs of the Joseph W. Jones Ecological Research Center	8,031,693
2 See attached report from the Director	0
3	0
4	0

Part IX-B Summary of Program-Related Investments (see page 24 of the instructions)

Describe the two largest program-related investments made by the foundation during the tax year on lines 1 and 2

	Amount
1 None	0
2	0
All other program-related investments See page 24 of the instructions	
3	0
Total. Add lines 1 through 3	0

Part X Minimum Investment Return (All domestic foundations must complete this part. Foreign foundations, see page 24 of the instructions.)

1	Fair market value of assets not used (or held for use) directly in carrying out charitable, etc., purposes:		
a	Average monthly fair market value of securities	1a	0
b	Average of monthly cash balances	1b	3,221,730
c	Fair market value of all other assets (see page 24 of the instructions)	1c	0
d	Total (add lines 1a, b, and c)	1d	3,221,730
e	Reduction claimed for blockage or other factors reported on lines 1a and 1c (attach detailed explanation).	1e	0
2	Acquisition indebtedness applicable to line 1 assets	2	0
3	Subtract line 2 from line 1d	3	3,221,730
4	Cash deemed held for charitable activities. Enter 1 1/2 % of line 3 (for greater amount, see page 25 of the instructions)	4	2,221,730
5	Net value of noncharitable-use assets. Subtract line 4 from line 3. Enter here and on Part V, line 4	5	1,000,000
6	Minimum investment return. Enter 5% of line 5	6	50,000

Part XI Distributable Amount (see page 25 of the instructions) (Section 4942(j)(3) and (j)(5) private operating foundations and certain foreign organizations check here ☒ and do not complete this part.)

1	Minimum investment return from Part X, line 6	1	
2a	Tax on investment income for 2009 from Part VI, line 5	2a	
b	Income tax for 2009. (This does not include the tax from Part VI.)	2b	
c	Add lines 2a and 2b	2c	
3	Distributable amount before adjustments. Subtract line 2c from line 1	3	
4	Recoveries of amounts treated as qualifying distributions	4	
5	Add lines 3 and 4	5	
6	Deduction from distributable amount (see page 25 of the instructions)	6	
7	Distributable amount as adjusted. Subtract line 6 from line 5. Enter here and on Part XIII, line 1	7	

Part XII Qualifying Distributions (see page 25 of the instructions)

1	Amounts paid (including administrative expenses) to accomplish charitable, etc., purposes:		
a	Expenses, contributions, gifts, etc.—total from Part I, column (d), line 26	1a	8,031,693
b	Program-related investments—total from Part IX-B	1b	0
2	Amounts paid to acquire assets used (or held for use) directly in carrying out charitable, etc., purposes	2	188,540
3	Amounts set aside for specific charitable projects that satisfy the:		
a	Suitability test (prior IRS approval required)	3a	0
b	Cash distribution test (attach the required schedule)	3b	0
4	Qualifying distributions. Add lines 1a through 3b. Enter here and on Part V, line 8, and Part XIII, line 4	4	8,220,233
5	Foundations that qualify under section 4940(e) for the reduced rate of tax on net investment income. Enter 1% of Part I, line 27b (see page 26 of the instructions)	5	0
6	Adjusted qualifying distributions. Subtract line 5 from line 4	6	8,220,233

Note. The amount on line 6 will be used in Part V, column (b), in subsequent years when calculating whether the foundation qualifies for the section 4940(e) reduction of tax in those years.

Part XIII Undistributed Income (see page 26 of the instructions)

	(a) Corpus	(b) Years prior to 2008	(c) 2008	(d) 2009
1 Distributable amount for 2009 from Part XI, line 7				0
2 Undistributed income, if any, as of the end of 2009:				
a Enter amount for 2008 only			0	
b Total for prior years: 20____, 20____, 20____		0		
3 Excess distributions carryover, if any, to 2009:				
a From 2004	None			
b From 2005	None			
c From 2006	None			
d From 2007	None			
e From 2008	None			
f Total of lines 3a through e	0			
4 Qualifying distributions for 2009 from Part XII, line 4: ▶ \$ _____ 0				
a Applied to 2008, but not more than line 2a			0	
b Applied to undistributed income of prior years (Election required—see page 26 of the instructions)		0		
c Treated as distributions out of corpus (Election required—see page 26 of the instructions)	0			
d Applied to 2009 distributable amount				0
e Remaining amount distributed out of corpus	0			
5 Excess distributions carryover applied to 2009 (If an amount appears in column (d), the same amount must be shown in column (a).)	0			0
6 Enter the net total of each column as indicated below:				
a Corpus. Add lines 3f, 4c, and 4e. Subtract line 5	0			
b Prior years' undistributed income. Subtract line 4b from line 2b		0		
c Enter the amount of prior years' undistributed income for which a notice of deficiency has been issued, or on which the section 4942(a) tax has been previously assessed		0		
d Subtract line 6c from line 6b. Taxable amount—see page 27 of the instructions		0		
e Undistributed income for 2008. Subtract line 4a from line 2a. Taxable amount—see page 27 of the instructions			0	
f Undistributed income for 2009. Subtract lines 4d and 5 from line 1. This amount must be distributed in 2010				0
7 Amounts treated as distributions out of corpus to satisfy requirements imposed by section 170(b)(1)(F) or 4942(g)(3) (see page 27 of the instructions)	0			
8 Excess distributions carryover from 2004 not applied on line 5 or line 7 (see page 27 of the instructions)	0			
9 Excess distributions carryover to 2010. Subtract lines 7 and 8 from line 6a	0			
10 Analysis of line 9:				
a Excess from 2005	0			
b Excess from 2006	0			
c Excess from 2007	0			
d Excess from 2008	0			
e Excess from 2009	0			

Part XIV Private Operating Foundations (see page 27 of the instructions and Part VII-A, question 9)

1a If the foundation has received a ruling or determination letter that it is a private operating foundation, and the ruling is effective for 2009, enter the date of the ruling ▶					07/25/89
b Check box to indicate whether the foundation is a private operating foundation described in section ☒ 4942(j)(3) or ☐ 4942(j)(5)					
2a Enter the lesser of the adjusted net income from Part I or the minimum investment return from Part X for each year listed	Tax year	Prior 3 years			(e) Total
	(a) 2009	(b) 2008	(c) 2007	(d) 2006	
	0	0	50,000	50,000	100,000
b 85% of line 2a	0	0	42,500	42,500	85,000
c Qualifying distributions from Part XII, line 4 for each year listed	8,220,233	8,390,502	8,603,383	8,015,503	33,229,621
d Amounts included in line 2c not used directly for active conduct of exempt activities	0	0	0	0	0
e Qualifying distributions made directly for active conduct of exempt activities. Subtract line 2d from line 2c	8,220,233	8,390,502	8,603,383	8,015,503	33,229,621
3 Complete 3a, b, or c for the alternative test relied upon:					
a "Assets" alternative test—enter:					
(1) Value of all assets					0
(2) Value of assets qualifying under section 4942(j)(3)(B)(i)					0
b "Endowment" alternative test—enter $\frac{2}{3}$ of minimum investment return shown in Part X, line 6 for each year listed	33,333	33,333	33,333	33,333	33,333
c "Support" alternative test—enter:					
(1) Total support other than gross investment income (interest, dividends, rents, payments on securities loans (section 512(a)(5)), or royalties)					0
(2) Support from general public and 5 or more exempt organizations as provided in section 4942(j)(3)(B)(iii)					0
(3) Largest amount of support from an exempt organization					0
(4) Gross investment income					0

Part XV Supplementary Information (Complete this part only if the foundation had \$5,000 or more in assets at any time during the year—see page 28 of the instructions.)**1 Information Regarding Foundation Managers:**

- a** List any managers of the foundation who have contributed more than 2% of the total contributions received by the foundation before the close of any tax year (but only if they have contributed more than \$5,000). (See section 507(d)(2).)

None

- b** List any managers of the foundation who own 10% or more of the stock of a corporation (or an equally large portion of the ownership of a partnership or other entity) of which the foundation has a 10% or greater interest.

None

2 Information Regarding Contribution, Grant, Gift, Loan, Scholarship, etc., Programs:

Check here ☐ if the foundation only makes contributions to preselected charitable organizations and does not accept unsolicited requests for funds. If the foundation makes gifts, grants, etc. (see page 28 of the instructions) to individuals or organizations under other conditions, complete items 2a, b, c, and d.

- a** The name, address, and telephone number of the person to whom applications should be addressed:

Lindsay R. Boring 3988 Jones Center Drive Newton, GA 39870 (229)734-4706

- b** The form in which applications should be submitted and information and materials they should include:

No Set application form

- c** Any submission deadlines:

None, except as established and published for specific programs.

- d** Any restrictions or limitations on awards, such as by geographical areas, charitable fields, kinds of institutions, or other factors:

Ecological research, education and conservation that fit the mission of the Center

Part XV Supplementary Information (continued)**3 Grants and Contributions Paid During the Year or Approved for Future Payment**

Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a Paid during the year University of Florida P.O. Box 113001 Gainesville, FL 32611 University of New Hampshire 8 College Road Durham NH 03824 San Jose State University 210 North Fourth Street San Jose CA 95112 The Nature Conservancy of Florida 222 South Westmonte Drive, Suite 300 Altamonte Springs, FL 32714 American Cancer Society 323 Pine Ave. Albany, GA 31701		509(a)(1) 509(a)(2) 509(a)(1) 509(a)(2) 509(a)(1)	Research Research Research Research Misc. Contributions	52,768 34,838 32,352 11,821 100
Total			3a	131,879
b Approved for future payment				0
Total			3b	0

Schedule B
(Form 990, 990-EZ,
or 990-PF)

Department of the Treasury
Internal Revenue Service

Schedule of Contributors

► **Attach to Form 990, 990-EZ, or 990-PF**

OMB No 1545-0047

2009

Name of the organization

Ichauway, Inc.

Employer identification number

58-1824778

Organization type (check one)

Filers of:

Form 990 or 990-EZ

Section:

- ☐ 501(c)(____) (enter number) organization
☐ 4947(a)(1) nonexempt charitable trust **not** treated as a private foundation
☐ 527 political organization

Form 990-PF

- ☒ 501(c)(3) exempt private foundation
☐ 4947(a)(1) nonexempt charitable trust treated as a private foundation
☐ 501(c)(3) taxable private foundation

Check if your organization is covered by the **General Rule** or a **Special Rule**

Note: Only a section 501(c)(7), (8), or (10) organization can check boxes for both the General Rule and a Special Rule. See instructions

General Rule –

- ☒ For an organization filing Form 990, 990-EZ, or 990-PF that received, during the year, \$5,000 or more (in money or property) from any one contributor (Complete Parts I and II)

Special Rules –

- ☐ For a section 501(c)(3) organization filing Form 990 or 990-EZ, that met the 33-1/3% support test of the regulations under sections 509(a)(1)/170(b)(1)(A)(vi) and received from any one contributor, during the year, a contribution of the greater of (1) \$5,000 or (2) 2% of the amount on (i) Form 990, Part VIII, line 1h or (ii) Form 990-EZ, line 1 Complete Parts I and II.
- ☐ For a section 501(c)(7), (8), or (10) organization filing Form 990 or 990-EZ, that received from any one contributor, during the year, aggregate contributions of more than \$1,000 for use *exclusively* for religious, charitable, scientific, literary, or educational purposes, or the prevention of cruelty to children or animals Complete Parts I, II, and III
- ☐ For a section 501(c)(7), (8), or (10) organization filing Form 990 or 990-EZ, that received from any one contributor, during the year, contributions for use *exclusively* for religious, charitable, etc, purposes, but these contributions did not aggregate to more than \$1,000 If this box is checked, enter here the total contributions that were received during the year for an *exclusively* religious, charitable, etc, purpose Do not complete any of the parts unless the **General Rule** applies to this organization because it received nonexclusively religious, charitable, etc, contributions of \$5,000 or more during the year ► \$ _____

Caution: An organization that is not covered by the General Rule and/or the Special Rules does not file Schedule B (Form 990, 990-EZ, or 990-PF) but it **must** answer 'No' on Part IV, line 2 of their Form 990, or check the box on line H of its Form 990-EZ, or on line 2 of its Form 990-PF, to certify that it does not meet the filing requirements of Schedule B (Form 990, 990-EZ, or 990-PF)

BAA For Privacy Act and Paperwork Reduction Act Notice, see the Instructions
for Form 990, 990-EZ, or 990-PF.

Schedule B (Form 990, 990-EZ, or 990-PF) (2009)

Name of organization

Employer identification number

Ichauway, Inc.

58-1824778

Part I. Contributors (see instructions)

(a) Number	(b) Name, address, and ZIP + 4	(c) Aggregate contributions	(d) Type of contribution
1	Robert W. Woodruff Foundation, Inc. 50 Hurt Plaza, Suite 1200 Atlanta GA 30303	\$ 16,400,000.	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution.)
2	U.S. Army - Strategic Environmental Research and Development Program 801 North Stuart Street, Suite 303 Arlington VA 22203	\$ 268,902.	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution.)
3	National Institute for Climatic Change Research c/o Duke University 2200 West Main Street, Suite 710 Durham NC 27705	\$ 118,688.	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution.)
4	National Fish and Wildlife Foundation 1120 Connecticut Avenue, NW, Suite 900 Washington DC 20036	\$ 43,649.	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution.)
5	U.S. Environmental Protection Agency Region 4 61 Forsyth Street, SW Atlanta GA 30303	\$ 43,596.	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution.)
6	John S. Lambert, D.V.M. P.O. Box 328 Sumrall MS 39482	\$ 20,000.	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution.)

Name of organization

Employer identification number

Ichauway, Inc.

58-1824778

Part I. Contributors (see instructions)

(a) Number	(b) Name, address, and ZIP + 4	(c) Aggregate contributions	(d) Type of contribution
7	The Nature Conservancy - Sewee to Santee Office P.O. Box 626 Mc Clellanville SC 29458	\$ 16,863.	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution.)
8	U.S. Army c/o Moody AFB 23 CES/CEAN 3485 Georgia Street Moody A F B GA 31699	\$ 14,531.	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution.)
9	Georgia Ornithological Society 3851 Ashford Trail Atlanta GA 30319	\$ 7,907.	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution.)
10	U.S. Army Corps of Engineers c/o University of Georgia 621 Boyd GSRC Athens GA 30602	\$ 6,346.	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution.)
11	R. Howard Dobbs Jr. Foundation c/o Emory University 1599 Clifton Road, 4th Floor Atlanta GA 30322	\$ 5,160.	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution.)
		\$	Person ☐ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution.)

Supporting Statement of:

Form 990-PF, pl/Line 1(a)

Description	Amount
Robert W. Woodruff Foundation, Inc.	16,400,000.
Strategic Environmental Research and Development Program	268,902.
National Institute for Climatic Change Research c/o Duke	118,688.
National Fish and Wildlife Foundation	43,649.
U.S. Environmental Protection Agency	43,596.
John S. Lambert, D.V.M.	20,000.
The Nature Conservancy - Sewee to Santee Office	16,863.
U.S. Army c/o Moody AFB	14,531.
Georgia Ornithological Society	7,907.
U.S. Army Corps of Engineers c/o University of Georgia	6,346.
R. Howard Dobbs Jr. Foundation c/o Emory University	5,160.
The Greentree Foundation	4,323.
The Nature Conservancy - Chattahoochee Fall Line Office	3,245.
Total	16,953,210.

**Form 990-PF
Part I, Line 6a****Net Gain or Loss From Sale of Assets****2009**

Name <u>Ichauway, Inc.</u>	Employer Identification Number <u>58-1824778</u>
-------------------------------	---

Asset Information:

Description of Property <u>1997 Ford F150</u>	
Date Acquired <u>12/08/99</u>	How Acquired <u>Purchased</u>
Date Sold <u>09/15/09</u>	Name of Buyer <u>Robert henry</u>
Sales Price <u>1,000.</u>	Cost or other basis (do not reduce by depreciation) <u>9,194.</u>
Sales Expense <u>0.</u>	Valuation Method <u>Cost</u>
Total Gain (Loss): <u>1,000.</u>	Accumulation Depreciation <u>9,194.</u>

Description of Property <u>1993 Ford Aerostar</u>	
Date Acquired <u>12/06/93</u>	How Acquired <u>Purchased</u>
Date Sold <u>12/18/09</u>	Name of Buyer <u>Kevin Coker</u>
Sales Price <u>301.</u>	Cost or other basis (do not reduce by depreciation) <u>19,002.</u>
Sales Expense <u>0.</u>	Valuation Method <u>Cost</u>
Total Gain (Loss): <u>301.</u>	Accumulation Depreciation <u>19,002.</u>

Description of Property: _____	
Date Acquired _____	How Acquired _____
Date Sold _____	Name of Buyer: _____
Sales Price _____	Cost or other basis (do not reduce by depreciation) _____
Sales Expense _____	Valuation Method _____
Total Gain (Loss) _____	Accumulation Depreciation _____

Description of Property _____	
Date Acquired _____	How Acquired _____
Date Sold _____	Name of Buyer _____
Sales Price _____	Cost or other basis (do not reduce by depreciation) _____
Sales Expense _____	Valuation Method _____
Total Gain (Loss) _____	Accumulation Depreciation _____

Description of Property _____	
Date Acquired _____	How Acquired _____
Date Sold _____	Name of Buyer _____
Sales Price _____	Cost or other basis (do not reduce by depreciation) _____
Sales Expense _____	Valuation Method _____
Total Gain (Loss) _____	Accumulation Depreciation _____

Description of Property _____	
Date Acquired _____	How Acquired _____
Date Sold _____	Name of Buyer _____
Sales Price _____	Cost or other basis (do not reduce by depreciation) _____
Sales Expense _____	Valuation Method _____
Total Gain (Loss) _____	Accumulation Depreciation _____

Description of Property _____	
Date Acquired _____	How Acquired _____
Date Sold _____	Name of Buyer _____
Sales Price _____	Cost or other basis (do not reduce by depreciation) _____
Sales Expense _____	Valuation Method _____
Total Gain (Loss): _____	Accumulation Depreciation _____

Description of Property _____	
Date Acquired _____	How Acquired _____
Date Sold _____	Name of Buyer _____
Sales Price _____	Cost or other basis (do not reduce by depreciation) _____
Sales Expense _____	Valuation Method _____
Total Gain (Loss) _____	Accumulation Depreciation _____

Ichauway, Inc.
Form 990-PF, Year 2009, Page 1, Part I.

58-1824778

Line 11 Other Income

Sale of Timber

Total

\$	<u>125,226</u>
\$	<u>125,226</u>

Form 990-PF, Page 1, Part I

Line 16a - Legal Fees

Name of Provider	Type of Service Provided	Amount Paid Per Books	Net Investment Income	Adjusted Net Income	Disbursements for Charitable Purposes
Robert C. Richardson	Legal Fees	1,050.			1,050.
Total		<u>1,050.</u>			<u>1,050.</u>

Form 990-PF, Page 1, Part I

Line 16b - Accounting Fees

Name of Provider	Type of Service Provided	Amount Paid Per Books	Net Investment Income	Adjusted Net Income	Disbursements for Charitable Purposes
Deloitte & Touche	Audit	29,437.	10,303.	10,303.	19,134.
Total		<u>29,437.</u>	<u>10,303.</u>	<u>10,303.</u>	<u>19,134.</u>

Form 990-PF, Page 1, Part I

Line 16c - Other Professional Fees

Name of Provider	Type of Service Provided	Amount Paid Per Books	Net Investment Income	Adjusted Net Income	Disbursements for Charitable Purposes
Suntrust	Investment Fees	8,000.	8,000.	8,000.	0.
Scientific Advisors	Scientific Advisory	28,312.			28,312.
Service Consultants	Consulting	139,473.			136,721.
Total		<u>175,785.</u>	<u>8,000.</u>	<u>8,000.</u>	<u>165,033.</u>

Ichauway, Inc.
Form 990-PF, Year 2009, Page 1, Part I.

58-1824778

Line 18. Taxes

Real Estate/Property Taxes	\$	116,700
Baker County Taxes		9,967
Misc. Taxes		203
Total	\$	<u>126,870</u>

Ichauway, Inc.

58-1824778

Form 990-PF, Year 2009, Page 1, Part 1, Line 23(a)(d).

Other Expenses

General Supplies	\$	17,703
Office Supplies		16,829
Misc. Supplies		10,615
Field Supplies		111,275
Grounds Supplies		152,330
Computer Supplies		8,690
Lab Supplies		30,427
Postage		5,663
Library Supplies		26,348
Uniforms		20,858
Fuel		153,275
Memberships & Dues		4,217
Miscellaneous		28,335
Maintenance Contracts		77,700
Equipment Lease		47
Contract Services		68,817
Repairs		99,541
Contract Services/Computers		111,396
General Insurance		187,280
Graduate Assistantships		168,304
Minor Equipment		32,304
Maintenance & Repairs		142,751
Total, Line 23(a)	\$	1,474,705
12/31/08 accrual of payables		127,902
12/31/09 accrual of payables		(101,325)
Total, Line 23(d)	\$	1,501,282

Form 990-PF, Page 2, Part II, Line 14

L-14 Stmt

Line 14b - Description of Land, Buildings, and Equipment	(a) Cost/Other Basis	(b) Accumulated Depreciation	(c) Book Value
Buildings and Improvements	8,749,802.	6,379,057.	2,370,745.
Furniture and Fixtures	760,586.	751,781.	8,805.
Equipment	1,835,959.	1,666,550.	169,409.
Vehicles	1,529,787.	1,336,157.	193,630.
Lab Equipment	1,683,913.	1,562,202.	121,711.
Computer Equipment	711,987.	695,654.	16,333.
Infrastructure	1,241,072.	1,204,329.	36,743.
Other Equipment	566,167.	544,565.	21,602.
Total	<u>17,079,273.</u>	<u>14,140,295.</u>	<u>2,938,978.</u>

Ichauway, Inc.

58-1824778

Form 990-PF, Year 2009, Page 6, Part VIII, Item 1

Compensation of Officers, Directors and Trustees

(a) Name and Address	(b) Title, and average hours per week devoted to position	(c) Compensation	(d) Contributions to employee benefit plans	(e) Expense account Other allowances
OFFICERS:				
P. Russell Hardin 50 Hurt Plaza, Suite 1200 Atlanta, Georgia 30303	President 5 hours per week	\$0	\$0	\$0
J. Lee Tribble 50 Hurt Plaza, Suite 1200 Atlanta, Georgia 30303	Treasurer 5 hours per week	0	0	0
Erik S. Johnson 50 Hurt Plaza, Suite 1200 Atlanta, Georgia 30303	Secretary 5 hours per week	0	0	0
TRUSTEES:				
James B. Williams 50 Hurt Plaza, Suite 1200 Atlanta, Georgia 30303	Chairman Trustee 5 hours per week	0	0	0
James M. Sibley 50 Hurt Plaza, Suite 1200 Atlanta, Georgia 30303	V-Chairman 1 hour per week	0	0	0
Wilton Looney 50 Hurt Plaza, Suite 1200 Atlanta, Georgia 30303	Trustee 1 hour per week	0	0	0
Charles B. Ginden 50 Hurt Plaza, Suite 1200 Atlanta, Georgia 30303	Trustee 1 hour per week	0	0	0
Charles H. McTier 50 Hurt Plaza, Suite 1200 Atlanta, Georgia 30303	Trustee 1 hour per week	0	0	0
Total		\$0	\$0	\$0

Explanation Statement

Form/Line: Form 990-PF, Page 8, Part X

Line 4

Explanation of: Minimum Investment Return - Cash Deemed Held for Charity

The organization's budget is funded at a level of revenue and expenses
being equal during the fiscal year. However, due to the timing of goods
and services, and also the timing of contributions, expenditures may not equal
revenue during the reporting period. All cash on hand will be
used for charitable purposes.

Director's 2009 Annual Report to the Trustees of Ichauway, Inc.



Richard T. Bryant photography

April 6, 2010

**Submitted by
Lindsay R. Boring, Ph.D.
Director**

Introduction and Summary

The Joseph W. Jones Ecological Research Center at Ichauway seeks to understand, to demonstrate, and to promote excellence in natural resource management and conservation on the landscape of the southeastern Coastal Plain of the United States.

Jones Center programs continue to grow and to develop new dimensions. Our internally-funded programs are leveraged with external partnerships and with recently awarded grants and research contracts. Visiting scientists, collaborating scientists and graduate students supplement the scope of the Center's programs. Research and outreach with longleaf pine ecosystems span silvicultural treatments, prescribed fire, forest productivity and the carbon cycle. Wetland and wildlife research address linkages of human health to ecosystem and wildlife health. The Flint River Basin project examines environmental flows and water quality issues in addition to surface water and aquifer interactions. We hosted 44 education groups with over 580 people. We published nineteen articles in research journals, had fourteen others accepted for publication and had eight other publications.

Scientific Advisory Committee

The members of the Scientific Advisory Committee (SAC) met February 3, 2010 to assess and comment upon development and productivity of Center programs. We quote their summary: "The SAC found all three central elements of the Jones Center program to be very productive. SAC views the program as having reached maturity, using that term in its most positive sense. In general, our primary encouragement is for the Center to continue on its current path."

Research

General

Our Center funded long-term research is organized into five projects:

- 1) Productivity and biodiversity of longleaf pine ecosystems
- 2) Longleaf pine forestry and prescribed fire
- 3) Lower Flint River Basin ecology and water resources
- 4) Wildlife predator ecology and habitat relationships
- 5) Wetlands ecology and restoration

These projects were enhanced by eight visiting scientists, 31 other collaborators, twenty-four graduate students, five newly-awarded grants for 2009 and by education activities and events associated with each project.

Program Development

The Center continues to increase its interactions with other programs and institutions, as well as expanding external funding and the geographic focus of its science and outreach programs. While many of our program initiatives have been in place for several years, we had significant advancements in the following areas:

- 1) Expanded funding base with five new grants and contracts related to long-term Center programs. These join eight other ongoing externally funded projects.
- 2) The Jones Center was nominated as a National Science Foundation (NSF) National Ecological Observatory Network (NEON) candidate site to collaborate with 60 other sites in the U.S.
- 3) Continued water quality research at Lake Seminole with two graduate students and cooperators at the University of Georgia (UGA) and the University of Florida (UF).
- 4) Two scientists, two graduate students and visiting scientists continued research on wetlands and mosquito ecology. Another project addresses tick ecology and tick-borne diseases, partially funded by the Centers for Disease Control.
- 5) Center staff continue to lead the organization of a National Coalition of Prescribed Fire Councils to promote fire education, human safety and ecological use of prescribed fire.
- 6) Began silvicultural treatments in the field in support of the long-term Longleaf Pine Ecological Forestry and Fire research project.
- 7) New collaborative projects are addressing information gaps in carbon sequestration by longleaf pine forests to support environmental policy.

Productivity

Our research program continues to achieve a high level of productivity. Staff published nineteen articles in peer-reviewed research journals and eight other documents. Fourteen papers were "in press". Presentations were given at national and regional professional meetings. A total of twenty-four graduate students from six universities were supported by the Center in 2009.

External Support and Collaboration

Our staff secured external funding for research and outreach programs that are compatible with organizational objectives. These awards for 2009 were \$528,886 for eleven projects from the following sources:

- 1) Department of Energy (DOE), National Institute for Climate Change Research through Duke University (1)
- 2) National Fish and Wildlife Foundation (NFWF) (2)

- 3) Environmental Protection Agency (EPA) (1)
- 4) U.S. Army Corps of Engineers through University of Georgia (1)
- 5) Strategic Environmental Research and Development Program (SERDP) (1)
- 6) U.S. Army (Moody Air Force Base) (1)
- 7) The Nature Conservancy (TNC) (2)
- 8) GA Ornithological Society (1)
- 9) R. Howard Dobbs, Jr. Foundation (1)

Education and Outreach

Overall

Education and Outreach activities increased this past year to over 44 groups with 580 individuals visiting the Center for workshops, field tours and short courses. Virtually all Center staff participate in these programs, which are coordinated and often led by Education staff. Research and Conservation staff are key participants in these activities. Our biennial Open House attracted an additional 500 visitors.

University Classes

- A variety of university classes visited the Center. Visits ranged from two to three days and included classes such as forest ecology, wildlife management, forestry, conservation biology, wetland ecology and environmental design. Universities represented included the University of Georgia (UGA), University of Florida (UF), Abraham Baldwin Agricultural College (ABAC), Arkansas Tech University (ATU), Mercer University (MU), Valdosta State University (VSU), Florida A&M and Towson University.
- Conducted two week-long "Maymester" classes. The 2009 courses were prescribed fire (UGA) and wildlife management (UGA).
- Hosted a Silviculture Instructors Tour that included a one-day field tour focusing on the Center's research and resource management programs for 50 university professors throughout the U.S. and Canada.
- Hosted the UGA Institute for Georgia Environmental Leadership class for a one-day visit to learn about water, forestry and fire topics.

Landowner Outreach

- Continued Native Groundcover Partnership, working with regional landowners on longleaf ecosystem restoration. Cooperative efforts with commercial producers and the Georgia Forestry Commission were initiated for research and

demonstration, and distribution of native seeds and plant materials. Also hosted a field day with over 40 attendees.

- Hosted a Landowner Field Day focusing on long-term management of longleaf pine plantations.
- Published a key Ecological Forestry research article which combines ecological and economic information on our Stoddard-Neel forestry system.
- Conducted a one-day field tour for the Georgia Forest Landowners Association focusing on longleaf pine ecology, management and restoration with twenty-three attendees.
- Conducted a three-day Ecological Forestry Workshop I for public and private land managers across the Southeast with twenty participants.

Prescribed Fire Outreach

- Continued to develop the National Coalition of Prescribed Fire Councils under Mark Melvin's leadership.
- Center staff supported the Georgia Prescribed Fire Council and hosted an annual meeting in Tifton with 112 attendees. Mark Melvin serves as Vice-chair.
- Hosted a four-day Army Fire Workshop focusing on ecological burning for Army fire managers from southeastern military installations and Hawaii.
- Hosted a one-day visit for an Australian fire manager focusing on Ichauway's fire management program and public/private fire management partnerships.
- Hosted the Georgia Environmental Protection Division (EPD) air quality branch chief and Region 4 U.S. Environmental Protection Agency (EPA) air quality chief for educational field tour on prescribed fire.
- Hosted a one-day visit by a WALB television crew on Georgia's Prescribed Fire Awareness Week to promote the benefits of prescribed fire.
- Hosted Discovery Channel television crew for a two-day visit to film a segment on prescribed fire and gopher tortoises for the show Daily Planet.
- Hosted a one-day visit by a WALB television crew to film a feature on prescribed fire.
- Hosted a one-day field tour for the National Prescribed Fire Training Academy focusing on prescribed fire use in the southeastern U.S. with 42 participants.

- Conducted a one-day course on prescribed fire for Center employees and graduate students.

Water Resources Outreach

- Woody Hicks chaired the Southwest Georgia Water Resources Task Force and co-organized the Georgia Water Resource Conference, "Regional Water Management Opportunities", held at the Center for Continuing Education at the University of Georgia in Athens, Georgia.
- Woody Hicks served on the Governor's Water Resources Advisory Committee and Technical Review Committee.
- Hosted a one-day visit by Georgia Public Television to film segments of an Appalachicola-Chattahoochee-Flint (ACF) documentary focusing on the scientific, social and political issues surrounding the ongoing ACF Basin dispute between Georgia, Alabama and Florida.
- Conducted a two-day Adopt-A-Stream Training Workshop that included a Flint River trip focused on the Flint's unique habitats and biota with fourteen participants.
- Conducted a five-day Freshwater Mussel and Fishes Training Workshop focusing on field survey techniques and identification of freshwater mussels and host fishes with twenty-three participants.
- Woody Hicks and Dr. Kay Kirkman serve on the Albany-Dougherty Greenspace Advisory committee.
- Staff served as educational and technical advisors to Flint RiverQuarium. Dr. Lindsay Boring continues to serve on the Flint RiverQuarium Board.

Government Agency and Conservation NGO Outreach

- Hosted the Georgia Department of Natural Resources (DNR) Board for three-day retreat with educational sessions on longleaf pine management, prescribed fire, water resources and wildlife monitoring.
- Conducted a three-day Army Installation Management Command Southeastern Ecological Forestry Workshop for foresters from Army installations across the southeastern U.S. with fourteen participants.
- Hosted the Georgia Forestry Commission Board and staff for a two-day visit including a field tour covering the topics of prescribed fire, water resources and ecological forestry.

- Hosted the new Georgia Department of Natural Resources Commissioner for a one-day field tour as an introduction to the Center's programs.
- Hosted the Commissioner of Economic Development and five Consul Generals for a two-day Georgia natural resource familiarization tour.
- Foresters with the Georgia Forestry Commission visited for two days and received updates on prescribed fire, restoration and ecological forestry.
- Hosted Lieutenant Governor Casey Cagle for a two-day visit focusing on water resources and prescribed fire.
- Dr. Steve Golladay continues to serve on Board of Directors of Georgia DNR "Adopt a Stream" program.

Regional K – 12 Educators

- In collaboration with the regional Georgia Youth Science Training Center (GYSTC), conducted a week-long teacher training program for regional educators from Improving Teacher Quality program.

Conservation and Land Management

Stewardship of Ichauway

- Our land management activities continued as in prior years in the major areas of forest management, wildlife management, hunting, agriculture, roads and firebreaks, restoration and research support.
- In 2009 approximately 14,500 acres were burned by prescription.
- Approximately 120 acres were treated for hardwood removal and cleanup by Jones Center personnel in targeted areas of the property (e.g., field and wetland margins) using our feller-buncher.
- We applied herbicides to enhance restoration efforts in hardwood removal areas and around overgrown field edges, for control of exotic and invasive species, and for endangered species management (i.e., red-cockaded woodpecker - RCW). Some areas where hardwoods were removed and herbicides applied in previous years received targeted follow-up chemical and mechanical treatments to provide additional control of hardwoods in areas under restoration.

- A 635-acre pine timber sale was implemented in conjunction with the long-term ecological forestry research project. All operational aspects of the sale, including planning and administration, individual tree selection-based timber marking and harvest oversight were carried out by Conservation personnel in 2009. Logging was initiated in November and was completed early in 2010.
- In 2009 we continued salvage operations to utilize dead trees that present hazard situations (primarily along roads or firebreaks). Recently dead trees – typically from lightning strikes or blowdown – are harvested, taken to the portable sawmill where they are cut into cants and stored under cover in an open-air shed. When needed this wood is cut for posts (4x4, 6x6 or 8x8) for sheds and fences or to dimensional sizes (utilizing the planer) for use in construction, repairs and renovations onsite. The salvage operation in 2009 provided 64,000 board feet of lumber for use at Ichauway.

Conservation Management Demonstration Area

- Ongoing management activities, such as prescribed fire and agricultural field management, were carried out in the Conservation Management Demonstration Area (CMDA). In addition to this basic management and frequent outreach events in the CMDA we also supported several research projects that are active within the unit, primarily through implementing specific burning prescriptions.

Apprenticeship (Intern) Program

- Two apprentices participated in the program during 2009. Bryant Williamson completed his residency in the program and returned to middle Georgia to begin a consulting business, while Cathryn “Cat” Eddins continued in the program throughout the year.

Monitoring

- Measurements were continued in the long-term forest monitoring plots with additional plots – part of a planned expansion to better characterize conditions on Ichauway – installed during the summer measurement period. Analysis of data and development of summaries continues, and research personnel (scientists, technicians and graduate students) are increasingly using information from these plots in their projects.
- We continued to utilize spotlight and track counts for monitoring mammal populations, especially the whitetail deer (WTD) population. The “spotlight” counts for WTD now use thermal cameras rather than high intensity lamps for detection because this technique requires fewer personnel and has a comparable detection rate. Population estimates for the WTD are used to determine harvest goals and guidelines for the property.

- We continued our participation in Partners in Flight and other national bird inventory programs for bird community monitoring; sampling locations for these programs coincide (as much as possible) with the long-term forest monitoring plots.
- Quail covey counts were conducted in the early fall to assess bobwhite population levels before the hunting season.

Red-Cockaded Woodpecker (RCW) Recovery and Management

- Successful restoration of the RCW population on Ichauway continued in 2009, though the population numbers dropped slightly for the first time this year after ten previous years of continual increase. This decline is thought to be due to the extended and severe drought of recent years that reduced nest attempts and subsequent juvenile survival. We expect this to be only a temporary decline, and numbers should come back in upcoming years as the drought is alleviated.
- There were twenty-one active clusters in 2009 and a total of 55-60 birds in the population. The long-term restoration goal is to have 30 active clusters with at least 25 breeding pairs.
- In 2009 the resident breeding pairs produced ten successful nests with twenty juveniles banded and fledged. In addition, ten RCW (five male-female pairs) were translocated to Ichauway from the Francis Marion National Forest in South Carolina in October of 2009.
- A grant from the Georgia Ornithological Society (GOS) Bill Terrell Avian Conservation Grant program was obtained to support the RCW restoration program in 2009. This grant primarily provided cost reimbursement for management activities associated with the RCW management. The GOS grant served to replace some of the money obtained in previous years from the Georgia DNR cost share program within the Safe Harbor program. The DNR program was discontinued in 2009 due to reduced federal and state budgets.

Presentations, Publications, Service and Training

- Our staff continued to communicate through meetings, proceedings and workshops with other professionals about our conservation programs and collaborations including: presentations at the American Society of Environmental Historians meeting, seminars at the University of Florida and Auburn University, Ecological Society of America meeting, Society of American Foresters convention, numerous fire council meetings, and refereed, non-refereed, and technical publications. Conservation staff also played a central role in conducting two ecological forestry shortcourses at Ichauway in 2009 and made presentations to multiple civic club groups.

Budget Summary

The total budget for Ichauway, Inc. and the Joseph W. Jones Ecological Research Center in 2009 was \$8,986,900. The major source of funding for this budget was a grant from the Robert W. Woodruff Foundation in the amount of \$8,400,000. Additional grants received for research and other activities totaled \$528,886.

All divisions of Ichauway operated within budget in 2009. Expenses for Research and support activities were \$3,214,656. Conservation and Land Management expenses were \$1,792,798. The expenses for Education and Outreach activities were \$482,274. Expenses for Administration, Maintenance and Operations were \$2,468,780.

APPENDIX

DIRECTOR'S 2009 ANNUAL REPORT to the TRUSTEES OF ICHAUWAY, INC.



Jessica McCorvey

- I Publications, Presentations and Grants
- II Education and Outreach Activities
- III Graduate Students
- IV Scientific Advisory Committee
- V Staff
- VI Jones Center Guest Seminars

Publications, Presentations and Grants

2009 "In Press" Articles

Atkinson, C. L., S. P. Opsahl, A. P. Covich, S. W. Golladay and L. M. Conner. Stable isotopic signatures, tissue stoichiometry, and nutrient cycling (C and N) of native and invasive freshwater bivalve. *Journal of the North American Benthological Society* 29:496-505.

Cathey, S., T. Sinclair and L. R. Boring. Evaluation of native legume growth and phenology under shaded conditions for restoration of longleaf pine-wiregrass ecosystem. *Proceedings of the Florida Soil and Crop Science Society*.

Conner, L. M., J. C. Rutledge and L. L. Smith. Effects of mesopredators on nest survival of shrub-nesting songbirds. *Journal of Wildlife Management* 74:73-80.

Hernandez, S. M., D. J. Gammons, N. Gottdenker, M. T. Mengak, **L. M. Conner** and S. J. Divers. Technique, safety, and efficacy of intra-abdominal transmitters in nine-banded armadillos. *Journal of Wildlife Management* 74:174-180.

Hoss, S. K., C. Guyer, L. L. Smith and G. W. Schuett. Multiscale influences of landscape composition and configuration on the spatial ecology of Eastern diamond-backed rattlesnakes (*Crotalus adamanteus*). *Journal of Herpetology* 44:110-123.

Howze, M. B., L. M. Conner, R. J. Warren and K. V. Miller. Predator removal and white-tailed deer recruitment in southwestern Georgia. *Proceedings of the Southeastern Association of Fish and Wildlife Agencies*.

Iacona, G. W., L. K. Kirkman and E. M. Bruna. Effects of resource availability on seedling recruitment in a fire-maintained savanna. *Oecologia*.

Jack, S. B., J. K. Hiers, R. J. Mitchell and J. L. Gagnon. Fuel loading and fire intensity - Effects on longleaf pine seedling survival. In *Proceedings of the 14th Biennial Southern Silvicultural Research Conference, 27 February - 1 March, 2007, Athens, Georgia*. USDA Forest Service General Technical Publication.

Kaeser, M. J. and L. K. Kirkman. Field and restoration guide to common native warm-season grasses of the longleaf pine ecosystem. In house publication for education and outreach.

Kirby, J. D., **J. C. Cochrane**, I. A. Jones, **L. M. Conner** and R. J. Warren. Factors affecting habitat use by bobcats in a longleaf pine ecosystem in southwestern Georgia. *Southeastern Naturalist*.

McIntyre, R. K., B. McCall, S. B. Jack and R. J. Mitchell. Financial feasibility of selection-based multiple-value management on private lands in the south: A heuristic case study approach. *Journal of Forestry*.

Morris, A. D., D. A. Miller and **L. M. Conner.** Home range size of evening bats (*Nycticeius humeralis*) in southwestern Georgia. *Southeastern Naturalist*.

Smith, L. L., S. K. Hoss, K. Wheeler and S. Varner. *Farancia erytrogramma* (Rainbow snake). *Herpetological Review*.

Temple, D. T., M. J. Chamberlain and L. M. Conner. Spatial ecology, survival, and cause-specific mortality of gray foxes (*Urocyon cinereoargenteus*) in a longleaf pine ecosystem. *American Midland Naturalist*.

Webster, J. R., E. F. Benfield, **S. W. Golladay** and M. E. McTammany. Recovery of particulate organic matter dynamics in a stream draining a logged watershed: A pressing situation. *Watershed 7 Synthesis Volume*.

2009 Published Refereed Journal Articles

Alstad, T. I., B. M. Shamblin, R. J. Warren, J. M. Stober, L. M. Conner, R. J. Cooper and C. J. Nairn. Novel tetranucleotide and pentanucleotide microsatellite loci in the red-cockaded woodpecker (*Picoides borealis*). *Conservation Genetics Resources* 1:213-215.

Atkinson, C. L., S. W. Golladay, S. P. Opsahl and A. P. Covich. Stream discharge and floodplain connections affect seston quality and stable isotopic signatures in a coastal plain stream. *Journal of the North American Benthological Society* 28:360-370.

Cathey, S. E., L. R. Boring and T. R. Sinclair. Assessment of N₂ fixation capability of native legumes from the longleaf pine-wiregrass ecosystem. *Environmental and Experimental Botany* 67:444-450.

Farmer, A. L., L. L. Smith, S. B. Castleberry and J. W. Gibbons. A comparison of techniques for sampling amphibians in isolated wetlands in Georgia, USA. *Applied Herpetology* 6:327-341.

Gammons, D. J., M. T. Mengak and L. M. Conner. Armadillo habitat selection in southwestern Georgia. *Journal of Mammalogy* 90:356-362.

Gammons, D. J., M. T. Mengak and L. M. Conner. Translocation of nine-banded armadillo. *Human-Wildlife Conflicts* 3:64-71.

Hiers, J. K., J. J. O'Brien, R. J. Mitchell, J. M. Grego and E. L. Loudermilk. The wildland fuel cell concept: an approach to characterize fine-scale variation in fuels and fire in frequently burned longleaf pine forests. *International Journal of Wildland Fire* 18:315-325.

Kaesler, M. J. and L. K. Kirkman. Estimating total plant species richness in depressional wetlands in the longleaf pine ecosystem. *Wetlands* 29:866-874.

Loudermilk, E. L., J. K. Hiers, J. J. O'Brien, R. J. Mitchell, A. Singhanian, J. C. Fernandez, W. P. Cropper, Jr. and K. C. Slatton. Ground-based LIDAR: A novel approach to quantify fine-scale fuelbed characteristics. *International Journal of Wildland Fire* 18:676-685.

Martin, K. L. and L. K. Kirkman. Management of ecological thresholds to re-establish disturbance-maintained herbaceous wetlands of the south-eastern USA. *Journal of Applied Ecology* 46:906-914.

Miller, B. F., D. A. Osborn, W. R. Lance, M. B. Howze, R. J. Warren and K. V. Miller. Butorphanol-azaperone-medetomidine for immobilization of captive white-tailed deer. *Journal of Wildlife Diseases* 45:457-467.

Mitchell, R. J., J. K. Hiers, J. O'Brien and G. Starr. Ecological forestry of the southeast: understanding the ecology of fuels. *Journal of Forestry* 107:391-397.

Mitchell, R. J., T. Engstrom, R. R. Sharitz, D. De Steven, J. K. Hiers, R. Cooper and L. K. Kirkman. Old forests and endangered woodpeckers: Old-growth in the southern Coastal Plain. *Natural Areas Journal* 29:301-310.

Mitchell, R. J. and S. L. Duncan. Range of variability in southern coastal plain forests: its historical, contemporary, and future role in sustaining biodiversity. *Ecology and Society* 14(1):17. [online] URL: <http://www.ecologyandsociety.org/vol14/iss1/art17/>

Smith, L. L., J. M. Linehan, J. M. Stober, M. J. Elliott and J. B. Jensen. An evaluation of distance sampling for large-scale gopher tortoise surveys in Georgia, USA. *Applied Herpetology* 6:355-368.

Steen, D. A. and L. L. Smith. Eastern Kingsnake (*Lampropeltis getula getula*) home ranges exhibit limited overlap. *Southeastern Naturalist* 8:553-558.

Stuble, K. L., L. K. Kirkman and C. R. Carroll. Patterns of abundance of fire ants and native ants in a native ecosystem. *Ecological Entomology* 34:520-526.

Subalusky, A. L., L. A. Fitzgerald and L. L. Smith. Ontogenetic niche shifts in the American Alligator establish functional connectivity between aquatic systems. *Biological Conservation* 142:1507-1514.

Subalusky, A. L., L. L. Smith and L. A. Fitzgerald. Detection of American alligators in isolated, seasonal wetlands. *Applied Herpetology* 6:199-210.

2009 Books, Published Proceedings, Outreach and Other Publications

Allums, S. E., S. P. Opsahl, S. W. Golladay and **D. W. Hicks**. Effects of land-use on groundwater quality in springs of the Upper Floridan aquifer. Pages 358-361 in G. D. Carroll (ed.). *Proceedings of the 2009 Georgia Water Resources Conference*. Institute of Ecology, University of Georgia, Athens, Georgia.

Graham, S. P., **S. K. Hoss**, R. D. Birkhead, C. K. Ward, **D. A. Steen**, K. M. Gray and R. H. Mount. One hundred and one new county records for Alabama amphibians and reptiles. *Herpetological Review* 40:367-371.

Heupel, A. M., K. E. McKean, J. M. Linehan, D. A. Steen and **L. L. Smith**. *Ambystoma* sp. Habitat use. *Herpetological Review* 40:66.

McEntire, J., S. P. Opsahl and A. P. Covich. Sources and cycling of nutrients in a subtropical reservoir. Pages 615-619 in G. D. Carroll (ed.). *Proceedings of the 2009 Georgia Water Resources Conference*. Odum School of Ecology, University of Georgia, Athens, Georgia.

Opsahl, S. P. and P. Inglett. Nitrogen sources and sinks in Lake Seminole: Implications for the Apalachicola-Chattahoochee-Flint (ACF) nutrient budget. Pages 199-202 in G. D. Carroll (ed.). *Proceedings of the 2009 Georgia Water Resources Conference*. Odum School of Ecology, University of Georgia, Athens, Georgia.

Rugel, K., J. Romeis, C. R. Jackson, S. W. Golladay, D. W. Hicks and J. F. Dowd. Use of historic data to evaluate effects of pumping stress on streams in southwest Georgia. Pages 140-143 in G. D. Carroll (ed.). *Proceedings of the 2009 Georgia Water Resources Conference*. Odum School of Ecology, University of Georgia, Athens, Georgia.

Sterrett, S. C. and A. M. Grosse. *Apalone spinifera aspera* (Gulf Coast Spiny Softshell). *Herpetological Review* 40:110.

Sterrett, S. C. and A. M. Grosse. *Graptemys barbouri* (Barbour's Map Turtle). *Herpetological Review* 40:110.

2009 Presentations and Abstracts

Allums, S. E., S. P. Opsahl, S. W. Golladay and **D. W. Hicks**. Effects of land-use on groundwater quality in springs of the Upper Floridan Aquifer. Oral presentation, Georgia Water Resources Conference, the University of Georgia, Athens, Georgia.

Atkinson, C. L., A. P. Covich, S. P. Opsahl, S. W. Golladay and L. M. Conner. Trophic niche space of a native mussel and *Corbicula fluminea* in a coastal plain stream. Oral presentation, North American Benthological Society, Grand Rapids, Michigan.

Boring, L. R. Application and historic context of Coweeta's long-term research to forest management and conservation. Oral presentation, Coweeta Hydrologic Laboratory, Otto, North Carolina.

Boring, L. R. Graduate education for Georgia's economy and its participation in the new global economy. Oral presentation, Valdosta Rotary Club, Valdosta, Georgia.

Boring, L. R. Overview of Joseph W. Jones Ecological Research Center and long-term research. Oral presentation, European Union Research Association, hosted by U.S. Department of Agriculture, Watkinsville, Georgia.

Conner, L. M. Predator Ecology: Implications for predator control. Oral presentation, Southeastern Association of Fish and Wildlife Agencies, Atlanta, Georgia.

Conner, L. M. Managing predation: An overview of predation research at the Joseph W. Jones Ecological Research Center. Oral presentation, Joint meeting of Georgia and South Carolina Chapters of The Wildlife Society, Edgefield, South Carolina.

Conner, L. M. The use of thermal imagery in wildlife management. Oral presentation, Abraham Baldwin Agricultural College, Tifton, Georgia.

Gleim, E., M. Yabsley and L. M. Conner. Understanding the ecological effects of prescribed fire regimes on the distribution and population dynamics of tick-borne zoonoses. Oral presentation, Warnell School of Forestry and Natural Resources Graduate Student Symposium, University of Georgia, Athens, Georgia.

Gleim, E., M. Yabsley, L. M. Conner and M. Levin. Understanding the ecological effects of prescribed fire regimes on the distribution and population dynamics of tick-borne zoonoses: Preliminary data. Poster presentation, The Wildlife Society, Georgia Chapter Annual Meeting, Athens, Georgia.

Gonynor, J. L. Research activities related to gopher tortoise population health in southwestern Georgia. Poster presentation, 31st Annual Gopher Tortoise Council Meeting, Gainesville, Florida.

Gonynor, J. L. Gopher tortoise disease ecology in southwestern Georgia. Poster presentation, Georgia Chapter of the Wildlife Society, Athens, GA

Gonynor, J. L., and M. J. Yabsley. Mycoplasma related upper respiratory tract disease in gopher and desert tortoises. Information Sheet #8, Southeastern Partners in Amphibian and Reptile Conservation, Disease, Pathogens and Parasites Task Team.

Gonynor, J. L., J. C. Maerz, L. L. Smith, S. Hernandez- Divers and M.J. Yabsley. Ecology of upper respiratory tract disease in the gopher tortoise (*Gopherus polyphemus*). Oral presentation, Warnell School of Forestry and Natural Resources Graduate Student Symposium. University of Georgia, Athens, GA.

Howze, M. B., L. M. Conner and R. J. Warren. Predation on white-tailed deer in southwestern Georgia. Oral presentation, Southeastern White-tailed Deer Study Group meeting, Roanoke, Virginia.

Howze, M. B., L. M. Conner, R. J. Warren and K. V. Miller. Predator removal and white-tailed deer recruitment in southwestern Georgia. Oral presentation, Annual Meeting of the Southeastern Association of Fish and Wildlife Agencies, Atlanta, Georgia.

Howze, M. B., L. M. Conner, R. J. Warren and K. V. Miller. Predator removal and white-tailed deer recruitment in southwestern Georgia. Oral presentation, Annual Meeting of The Wildlife Society, Monterey, California.

Ike, C., D. Markewitz and L. R. Boring. Predicting carbon content within a longleaf pine ecosystem: Kreiged prediction mapping. Poster presentation, Southern Forestry Geographic Information System Conference (SOFORGIS), Athens, Georgia.

Jack, S. B. The Stoddard-Neel approach: Long-term management of longleaf pine in a changing landscape. Oral presentation, American Society of Environmental History Annual Meeting, Tallahassee, Florida.

Jack, S. B. and R. J. Mitchell. Overstory legacies and fire: Linking silvicultural manipulations and prescribed fire. Oral presentation, Society of American Foresters Annual Convention, Lake Buena Vista, Florida.

Kaeser, M. J. and L. K. Kirkman. The effects of herbicides on non-target native plants of the longleaf pine ecosystem. Poster presentation, 2009 Meeting of the Ecological Society of America, Albuquerque, New Mexico.

Linehan, J. M., K. E. McKean, P. L. Shirk, J. M. Stober, L. L. Smith and M. Elliott. Standardized protocol for monitoring gopher tortoise populations. Poster presentation, Southeastern Partners in Amphibian and Reptile Conservation (SEPARC), Montreat, North Carolina.

Linehan, J. M., D. A. Steen and L. L. Smith. Ecology of the eastern kingsnake (*Lampropeltis getula getula*) in a longleaf (*Pinus palustris*) forest in southwestern Georgia. Oral presentation, Gopher Tortoise Council Meeting, Gainesville, Florida.

McIntyre, R. K., S. B. Jack and R. J. Mitchell. Ecological forestry in the longleaf pine landscape: A case study in using disturbance ecology to guide management. Invited Presentation, the U.S. Fish and Wildlife Service Southeast Regional Biologists Conference, Pine Mountain, Georgia.

McIntyre, R. K. and S. B. Jack. Ecological forestry in the longleaf pine ecosystem: Linking research, adaptive management, and outreach for conservation. Oral presentation, North American Forest Ecology Workshop, Logan, Utah.

McIntyre, R. K. and R. D. Sutter. America's longleaf restoration initiative: Mapping and inventory. Invited Presentation, the Southeastern Regional Partnership for Planning and Sustainability (SERPPAS) Principal's Meeting, Destin, Florida.

McKean, K. E., J. M. Linehan and L. L. Smith. Amphibian species richness, abundance, and distribution at two managed seasonal wetlands in Southwest Georgia. Poster presentation, Southeastern Partners in Amphibian and Reptile Conservation (SEPARC), Montreat, North Carolina.

Mitchell, R. J., J. R. Walters, S. B. Jack and J. K. Hiers. Endangered species management in an ecological forestry context: Red-cockaded woodpeckers and variation in the longleaf forest. Oral presentation, Society of American Foresters Annual Convention, Lake Buena Vista, Florida.

Pieterse, E. C., Jose, S., Jack, S. B., Kitajima, K. and P. Minogue. Prescribed fire gives native species a head start following invasion. Poster presentation, Society of American Foresters Annual Convention, Lake Buena Vista, Florida.

Pieterse, E. C., Jose, S., Jack, S. B., Kitajima, K. and P. Minogue. Benefits and pitfalls of GIS modeling to manage invasive exotic species. Poster presentation, Ecological Society of America Annual Meeting, Albuquerque, New Mexico.

Pieterse, E. C., Jose, S., Jack, S. B., Kitajima, K. and P. Minogue. Multiple control strategies for *Lygodium japonicum* (Japanese climbing fern) in the southeastern United States. Oral presentation, Florida Exotic Pest Plant Council Annual Symposium, Delray Beach, Florida.

Pieterse, E. C., Jose, S., Jack, S. B., Kitajima, K. and P. Minogue. Do biological invasions affect biological diversity? Comparisons of native and nonnative diversity within *Lygodium japonicum* (Japanese climbing fern) infestations. Poster presentation, 11th Annual Southeast Exotic Pest Plant Council Conference, Georgetown, South Carolina.

Rothermel, B. B., J. B. Jensen, M. J. Yabsley, D. L. Miller and **J. L. Gonynor**. Disease dynamics of pond-breeding amphibians at a site in the Blue Ridge Mountains of Georgia, USA. Oral presentation, Joint Meeting of Ichthyologists and Herpetologists, Portland, Oregon.

Miller, D. L., B. B. Rothermel, N. L. Eckert, M. J. Yabsley, **J. L. Gonynor**, J. T. Hoverman, J. B. Jensen and M. J. Gray. Review of clinical cases and surveillance for amphibian disease. Association of Reptilian and Amphibian Veterinarians, Milwaukee, Wisconsin.

Rugel, K., J. Romeis, C. R. Jackson, **S. W. Golladay**, **D. W. Hicks** and J. F. Dowd. Use of historic data to evaluate effects of pumping stress on streams in Southwest Georgia. Oral presentation, Georgia Water Resources Conference, University of Georgia, Athens, Georgia.

Scott, J. S. Castleberry, R. J. Warren and **L. M. Conner**. Integrated habitat management for fox squirrels, deer, turkey, and quail on Ft. Bragg. Oral presentation, Cooperative Ecosystems Studies Unit Annual Meeting, Dubuque, Iowa.

Shearin, M., **L. K. Kirkman** and C. R. Carroll. The direct and indirect effects of the red imported fire ant (*Solenopsis invicta*) on seed fate in the longleaf pine ecosystem. Oral presentation, Odum School of Ecology Graduate Student Symposium, Athens, Georgia.

Shivers, S. D., **S. P. Opsahl** and A. P. Covich. The impact of Submerged Aquatic Vegetation (SAV) on water quality in Lake Seminole, a southeastern reservoir. Oral presentation, Odum School of Ecology Graduate Student Symposium, University of Georgia, Athens, Georgia.

Smith, L. L. Home range size and habitat selection in large upland snakes in the longleaf pine ecosystem. Oral presentation, Snake Ecology Group, Boise, Idaho.

Smith, L. L. Large-scale application of distance sampling to estimate density and abundance of gopher tortoises. Oral presentation, Annual Meeting of the Gopher Tortoise Council, Gainesville, Florida.

Smith, L. L., **J. M. Linehan**, **J. M. Stober**, M. J. Elliott and J. B. Jensen. An evaluation of distance sampling for large-scale gopher tortoise surveys in Georgia. Oral presentation, Gopher Tortoise Council, Gainesville, Florida.

Smith, L. L., **D. A. Steen.**, **L. M. Conner**, **R. J. Mitchell** and **J. K. Hiers**. Developing dynamic reference models for longleaf pine sandhill ecosystems: Faunal response to restoration. Poster presentation, Strategic Environmental Research and Development Program (SERDP), Washington, D.C.

Whitehead, E., M. Blackmore, **S. W. Golladay**, D. Meade and A. P. Covich. Adult mosquito ecology in southwestern Georgia. Oral presentation, Georgia Mosquito Control Association Annual Meeting, Athens, Georgia.

Organization of Conferences, Symposia, Workshops and Meetings, Professional Seminars and Guest Lectures

Golladay, S. W. Water resource issues in the ACF Basin. Seminar, Columbus State University, Columbus, Georgia.

Kirkman, L. K. The perpetual forest: Using an undesirable species to bridge restoration. Oral presentation, Odum School of Ecology, University of Georgia, Athens, Georgia.

Kirkman, L. K. Status of native ground cover seed sources in Georgia. Oral presentation, Partners for the Conservation, Propagation and Restoration of Native Groundcover in South Carolina.

Kirkman, L. K. Native trees and sustainable environments. Seminar, Winter 2009 Master Gardener Conference, Darton College, Albany, Georgia.

Jack, S. B. Co-organizer E. Jokela, University of Florida. Annual Silviculture Instructors Tour for sub-working group of Society of American Foresters. Tour occurred over five days (26-30 September), traveling from Tallahassee, Florida to Orlando, Florida for 50 participants. Responsible for organizing portion of program, multiple presentations, most of the logistics, and developing some technical handouts for the tour, as well as hosting group at Ichauway and Greenwood Plantation.

Jack, S. B. Co-organizer **R. J. Mitchell** and moderated a three-hour session titled, "Concepts to practice: Ecological forestry approaches in fire-maintained longleaf forests". Session consisted of six invited presentations representing several organizations. Society of American Foresters Annual Convention, Orlando, Florida.

Externally Funded Projects - 2009

Conner, L. M., R. J. Warren, G. S. Sledge and S. B. Castleberry. Development, validation and refinement of habitat suitability models for selected wildlife species on Fort Bragg. University of Georgia. October 1, 2007 – December 31, 2010. \$25,000. Received in 2008, \$8,000. Received in 2009, \$6,346.

Hicks, D. W. Grand Bay-Banks Lake long-term wetland evaluation. U.S. Army, Moody AFB. April 1, 2009 – December 31, 2013. \$104,644. Received in 2009, \$14,531.

Hiers, J. K., R. J. Mitchell and C. B. Clements. In situ measures of fire-atmospheric dynamics: Implications for PM 2.5 production and dispersion. Environmental Protection Agency. June 1, 2008 – May 31, 2010. \$70,000. Received in 2008, \$26,404. Received in 2009, \$43,596.

Kirkman, L. K., L. M. Conner and **R. K. McIntyre**. Longleaf pine ecosystem conservation III. National Fish and Wildlife Foundation. September 1, 2007 – December 31, 2010. \$196,500. Received in 2007, \$5,826. Received in 2008, \$33,592. Received in 2009, \$28,610.

Kirkman, L. K., R. K. McIntyre and **L. M. Conner**. Enhancing longleaf ecosystem understory. National Fish and Wildlife Foundation. October 31, 2007 – June 31, 2011. \$82,000. Received in 2008, \$923. Received in 2009, \$15,039.

McIntyre, R. K. and **S. B. Jack**. Collaborative management and restoration of longleaf pine in lowcountry South Carolina. The Nature Conservancy. February 2, 2009 – December 31, 2011. \$53,423. Received in 2009, \$16,864.

Mitchell, R. J., E. A. Hobbie, C. R. Ford. Does increased precipitation alter belowground allocation and carbon storage by fine roots and mycorrhizal fungi in pine savannas? DOE, National Institute for Climate Change Research, Duke University. March 1, 2008 – December 31, 2010. \$375,000. Received in 2008, \$97,745. Received in 2009, \$118,688.

Mitchell, R. J., L. K. Kirkman, L. M. Conner, L. L. Smith, J. Priddy, P. Yates, M. C. Mack, J. R. Walters and **R. D. Sutter**. Developing dynamic reference models and a decision support framework for southeastern ecosystems: An integrated approach. Strategic Environmental Research and Development Program. March 26, 2009 – March 25, 2014. \$1,351,138. Received in 2009, \$268,902.

Mitchell, R. J. and **L. Wayburn**. Working forests in a changing climate: Creating a pilot forestry offset process for frequently burned longleaf pine in Georgia. R. Howard Dobbs, Jr. Foundation. June 1, 2009 – May 31, 2010. \$8,500. Received in 2009, \$5,160.

Smith, L. L. and **J. M. Stober**. Gopher tortoise surveys at Ft. Gordon, Georgia. The Nature Conservancy. November 6, 2009 – May 31, 2010. \$55,578. Received in 2009, \$3,244.

Stober, J. M. Bill Terrell Avian Conservation Grant. Georgia Ornithological Society. February 11, 2009 – June 30, 2010. \$14,000. Received in 2009, \$7,906.

Longterm Research Internally Funded Projects – 2009

Conner, L. M. and L. L. Smith. The ecological role of mesopredators, the effects of mesopredator control and habitat approaches for managing predation.

Golladay, S. W., S. P. Opsahl, L. L. Smith and D. W. Hicks. Hydrologic variation and human development in the lower Flint River Basin: An ongoing landscape-scale experiment.

Kirkman, L. K., S. W. Golladay, L. L. Smith, S. P. Opsahl and D. W. Hicks. Depressional wetlands in the coastal plain landscape: Maintenance of regional biological diversity.

Mitchell, R. J., L. K. Kirkman, L. R. Boring and L. M. Conner. Productivity and biodiversity patterns: Controls in a southeastern coastal plain landscape (the forest productivity project).

Mitchell, R. J., S. B. Jack, R. K. McIntyre, L. K. Kirkman, L. L. Smith and L. M. Conner. Ecological forestry project: Silviculture that sustains and restores native biodiversity of pinelands in the Southeastern Coastal Plain: Legacies, fire and recovery periods.

Education and Outreach Activities

On-site Activities

University Class Visits

University of Florida. A two-day field experience focusing on longleaf pine management and restoration. (17)

University of Georgia. A week-long Maymester short course in fire ecology. (15)

University of Georgia. A week-long Maymester short course in wildlife ecology. (17)

University of Georgia. A two-day field tour focusing on herpetology. (20)

Abraham Baldwin Agricultural College. A one-day field tour focusing on prescribed fire. (14)

Arkansas Tech University. A two-day field tour focusing on forest ecology. (12)

University of Georgia. A three-day field experience focusing on mammalogy. (16)

Mercer University. A two-day field experience focusing on longleaf pine ecology, conservation biology and management. (24)

Valdosta State. A two-day field tour focusing on entomology. (17)

Florida A&M. A two-day field experience for graduate students focusing on isolated wetlands. (6)

Albany State University. A one-day visit focusing on opportunities in the fields of math and science. (20)

Towson University. A two-day field tour focusing on the Center's wildlife and herpetology research. (4)

Teacher Outreach

Environmental Education Research Academy (EERA). A week-long workshop and field experience for K-12 educators. (19)

Natural Resource Conservation

Ecological Forestry Workshop I. A three-day workshop for public and private land managers from across the Southeast. (20)

National Prescribed Fire Training Center. A one-day field tour focusing on prescribed fire use in the southeastern U.S. (34)

Freshwater Mussel and Fishes Workshop. A five-day training workshop focusing on field survey techniques and identification of freshwater mussels and host fishes. (23)

Institute for Georgia Environmental Leadership (IGEL). A one-day field tour focusing on prescribed fire and water resources issues. (37)

Georgia Forestry Commission Board. A two-day visit including a Board meeting and educational sessions on ecological forestry, groundcover restoration, water resources and prescribed fire. (15)

Army Installation Management Command Southeastern Ecological Forestry Workshop. A three-day workshop for foresters from Army installations across the southeastern U.S. (14)

Landowner Field Day. A one-day workshop focusing on long-term management of longleaf pine plantations that transitions young plantations to mature longleaf-pine grasslands. (23)

Internal Prescribed Fire Course. A one-day course focusing on prescribed fire for Jones Center employees and graduate students. (12)

Georgia Department of Natural Resources Board. A three-day retreat with educational sessions on longleaf pine management, prescribed fire, water resources and wildlife monitoring. (13)

Lt. Governor Casey Cagle. A two-day visit focusing on water resources and prescribed fire. (2)

Australian Fire Manager. A one-day visit focusing on Ichauway's fire management program and public/private fire management partnerships. (1)

Georgia Forestry Commission Foresters. A two-day visit including a field tour covering the topics of prescribed fire, restoration and ecological forestry. (16)

Army Fire Workshop. A four-day workshop focusing on ecological burning for Army fire managers from southeastern military installations and Hawaii. (9)

Adopt-A-Stream Training Workshop. A two-day meeting including a Flint River trip focused on the Flint's unique habitats and biota. (14)

Georgia Forest Landowners Association. A one-day field tour focusing on longleaf pine ecology, management and restoration. (23)

Silviculture Instructors Tour. A one-day field tour focusing on the Center's research and resource management programs. (50)

Project Orianne Indigo Snake Working Group. A three-day meeting focusing on indigo snake conservation. (20)

Department of Economic Development. A two-day familiarization tour for the Consul Generals. (5)

National Ecological Observatory Network (NEON) Workshop. A two-day meeting to discuss status and development of the NEON program. (2)

Department of Natural Resources Commissioner. A one-day field tour for new Georgia DNR Commissioner. (1)

Public Relations

WALB. A one-day visit by a television crew on Georgia's Prescribed Fire Awareness Week to promote the benefits of prescribed fire. (2)

Open House. A one-day open house of Jones Center facilities. (500)

Discovery Channel. A two-day visit by a television crew to film a segment on prescribed fire and gopher tortoises for the show Daily Planet. (2)

WALB. A one-day visit by a television crew to film a feature on prescribed fire. (2)

Appalachicola-Chattahoochee-Flint (ACF) Documentary. A one-day visit to film segments of a movie being produced by Georgia Public Television focusing on the scientific, social and political issues surrounding the ongoing ACF Basin dispute between Georgia, Alabama and Florida. (2)

2009 Graduate Students

Graduated 2009

Revegetation potential of slash pile burn scars within the longleaf pine forest. (University of Georgia, M.S., L. K. Kirkman)	Michelle Creech
A retrospective analysis of the white-tailed deer herd at the Joseph W. Jones Ecological Research Center. (University of Georgia, M.S., L. M. Conner)	Brent Howze
Nutrient sources and cycling in a shadow subtropical reservoir. (University of Georgia, M.S., S. P. Opsahl)	Julie McEntire
Predicting invasion success of a lotic crayfish from physicochemical habitat variables and predator-avoidance behavior. (University of Georgia, M.S., S. W. Golladay)	Lindsey Sargent
The influence of riparian disturbance on aquatic turtles in the Lower Flint River Basin, Georgia. (University of Georgia, M.S., L. L. Smith)	Sean Sterrett
Mosquito use of natural and human disturbed isolated wetlands: Implications for human health. (University of Georgia, M.S., S. W. Golladay)	Eva Whitehead

Current 2009 Projects

Red-cockaded woodpecker genetics. (University of Georgia, M.S., L. M. Conner)	Travis Alstad
Scaling internally cycled respired carbon from individual tree to ecosystem scales. (University of Georgia, Ph.D., R. J. Mitchell)	Doug Aubrey
A fast-running physics-based model for coupled atmosphere fire behavior: Model development and comparison with experimental field data. (Florida State University, Ph.D., R. J. Mitchell)	Jesse Canfield
The effect of light and moisture on longleaf pine seedling growth under varying canopy densities. (Auburn University, M.S., S. B. Jack)	David Dyson

Tick-borne diseases and interactions with deer herds and prescribed fire. (University of Georgia, Ph.D., L. M. Conner)	Elizabeth Gleim
Gopher tortoise population health in a changing landscape. (University of Georgia, Ph.D., L. L. Smith)	Jess Gonyor
Land use and soil carbon storage. (University of Georgia, M.S., L. R. Boring)	Claire Ike
Linking spatial variation of understory vegetative fuels with silviculture and forest dynamics in the frequent low intensity fire regime of the longleaf pine ecosystem. (University of Florida, Ph.D., R. J. Mitchell)	Louise Loudermilk
Landscape changes in depressional wetlands. (University of Georgia, M.S., L. K. Kirkman)	Glenn Martin
Correlations between community diversity and within-species genetic diversity in an amphibian assemblage: Potential processes and implications for conservation management (University of Georgia, Ph.D., L. L. Smith)	Anna McKee
Effect of supplemental feeding, predator exclusion and prescribed fire on small mammal populations in longleaf pine ecosystem. (University of Florida, M.S., L. M. Conner)	Gail Morris
Distribution, dynamics and control strategies for Japanese Climbing Fern. (University of Florida, M.S., S. B. Jack)	Corrie Peterson
Influence of human water use on streamflow characteristics in the lower Flint River, Georgia. (University of Georgia, Ph.D., S. W. Golladay)	Kathleen Rugel
Impacts of fire ants on seed dispersal. (University of Georgia, M.S., L. K. Kirkman)	Margaret Shearin
Influence of submerged aquatic vegetation (SAV) on water quality in Lake Seminole. (University of Georgia, M.S., S. P. Opsahl)	Stephen Shivers

Associations between upland snake assemblages
and longleaf pine forests.
(Auburn University, Ph.D., L. L. Smith)

Dave Steen

Controls of reproduction and recruitment of
legumes in the longleaf pine-wiregrass ecosystem.
(Auburn University, M.S., L. K. Kirkman)

Scott Wiggers

The influence of fire regime on carbon cycling in pine
grassland savannas of the southeastern U.S.
(University of Edinburgh, Ph.D., R. J. Mitchell)

Jenny Wright

Conservation Interns/Apprentices

Cathryn E. "Cat" Eddins. 2007 - 2009. A.S. in Wildlife Technology, Abraham Baldwin
Agricultural College.

Bryant R. Williamson. 2007 - 2009. B.S. in Forest Resources, University of Georgia.

Scientific Advisory Committee

Dr. Gene E. Likens – Chair (1988- present)
Distinguished Senior Scientist, Ecologist
Founding Director and President Emeritus
Cary Institute of Ecosystem Studies

Dr. Jerry F. Franklin (1988-present)
Professor of Ecosystem Management
College of Forest Resources
University of Washington

Dr. James E. Kundell (2006-2010)
Professor Emeritus
Odum School of Ecology and Carl Vinson Institute of Government
University of Georgia

Dr. Robert J. Naiman (1993-present)
Professor
School of Fisheries
University of Washington

Rotating SAC Members 2009

Dr. Malcolm L. Hunter, Jr. (1996- 2009)
Libra Professor of Conservation Biology Professor of Wildlife
Department of Wildlife Ecology
University of Maine

Mr. W. Leon Neel (1997-2008)
Forest and Wildlife Consultant
Thomasville, Georgia

New SAC Members 2010

Mr. Robert Larimore (2010-present)
Natural Resource Specialist
US Army Installation Management Command (IMCOM), Southeast Region
Fort McPherson, Atlanta, Georgia

Dr. Nova Silvy (2010-present)
Regents Professor
Department of Wildlife and Fisheries Sciences
Texas A&M University

Staff

Scientists

Lindsay R. Boring - Director, Scientist, Forest Ecology
Adjunct Associate Professor - University of Georgia
Affiliate Associate Professor - Auburn University
Courtesy Professor - University of Florida

L. Michael Conner - Associate Scientist, Wildlife Ecology
Adjunct Assistant Professor - University of Georgia
Adjunct Assistant Professor - Louisiana State University
Adjunct Assistant Professor - Mississippi State University
Adjunct Assistant Professor - Utah State University
Adjunct Assistant Professor - University of Florida

Stephen W. Golladay - Associate Scientist, Aquatic Ecology
Adjunct Associate Professor - University of Georgia

D. Woody Hicks - Scientist, Groundwater Hydrology

Steven B. Jack - Conservation Ecologist, Applied Forest Scientist

L. Katherine Kirkman - Associate Scientist, Plant Ecology
Adjunct Assistant Professor - University of Georgia
Affiliate Assistant Professor - Auburn University
Adjunct Assistant Professor - University of Florida

Robert J. Mitchell – Scientist, Forest Ecology and Silviculture
Adjunct Associate Professor - University of Georgia
Adjunct Associate Professor - Auburn University
Adjunct Associate Professor - University of Florida
Adjunct Associate Professor - Virginia Polytechnic Institute and State University
Adjunct Associate Professor - Florida State University

Stephen P. Opsahl - Associate Scientist, Aquatic Microbial Ecology
Adjunct Assistant Professor - Florida State University
Adjunct Assistant Professor - University of Florida
Adjunct Assistant Professor – University of Georgia

Lora L. Smith - Associate Scientist, Wildlife Ecology
Adjunct Assistant Professor - University of Georgia
Courtesy Assistant Professor - University of Florida
Affiliate Assistant Professor - Auburn University

Adjunct Assistant Professor - Texas A&M University
Adjunct Assistant Professor - University of Maine

Research Technicians

Stephanie E. Allums – Lead Technician II, Aquatic Microbiology

James P. Bradley - Research Technician / Field Engineer II

Brian A. Clayton - Monitoring Technician II, Groundwater Hydrology

Noah Jansen – Lead Technician I, Forest Ecology

Melanie J. Kaeser – Lead Technician II, Plant Ecology

Jennifer M. Linehan – Lead Technician I, Herpetology

Jason D. McGee – Lead Technician II, Forest Ecology and Silviculture

Jessica C. Rutledge – Lead Technician II, Wildlife Ecology

Nathalie D. Smith – Lead Technician I, Aquatic Ecology

R. Scott Taylor – Lead Technician II, Forest Ecology

Dwan N. Williams - Research Technician II, Forest Ecology

Research Support

Jean C. Brock - Information Technology Manager

Elizabeth P. Cox - Science Librarian

John A. Merritt - Network Manager

Micheal G. Simmons – Database / Data Analyst

Education

Jessica D. McCorvey - Education Program Assistant

R. Kevin McIntyre - Education Coordinator

Conservation

James B. Atkinson, Jr. - Natural Resource Manager

Bobby E. Bass - Conservation Technician II

Cathryn E. Eddins - Conservation Apprentice *

Steven B. Jack - Conservation Ecologist

Mark A. Melvin - Conservation Management / Education Technician

Joel L. Rackley - Agricultural Specialist

T. Scott Smith - Assistant Natural Resource Manager

Jonathan M. Stober - Wildlife Monitoring Biologist

David C. Varnadoe - Conservation Horticulturist

Bryant R. Williamson - Conservation Apprentice *

Maintenance and Operations

Dennis J. Williams - Maintenance Manager

Administration

Rosanne B. Bohannon - Procurement Specialist / Accounting Assistant

Lindsay R. Boring - Director

Cindy C. Craft – Administrative and Human Resource Assistant

Larry E. Ethridge - Security Supervisor

Becky H. Gay – Business Administrator

Jessica A. Kelly - Receptionist

Robert S. Lynch - Accountant

Denise R. McWhorter - Assistant to the Director

*has left the Center

Guest Seminars

Allums, Stephanie E. Lead Technician IV, Aquatic Microbiology, Joseph W. Jones Ecological Research Center, Newton, Georgia. Evaluation of groundwater quality in springsheds of the Karst Upper Floridan Aquifer.

Creech, Michelle. M.S. Student, Odum School of Ecology, University of Georgia, Athens, Georgia. Revegetation potential of slash pile burn sites in the longleaf pine ecosystem.

Fenolio, Dr. Danté. Amphibian Conservation Scientist, Atlanta Botanical Garden, Atlanta, Georgia. Life in the dark.

Gray, Robert W. Fire Ecologist, R. W. Gray Consulting Ltd., Chilliwack, British Columbia. Assessing fire behavior and fire effects in mountain pine beetle-killed lodgepole pine stands in southeastern British Columbia.

Hernandez-Divers, Dr. Sonia. Assistant Professor, Wildlife Disease, Warnell School of Forestry and Natural Resources, University of Georgia and Southeastern Cooperative Wildlife Disease Study (SCWDS), Department of Population Health, College of Veterinary Medicine, Athens, Georgia. Wildlife disease and ecosystem health.

Howze, Brent. M.S. Student, Warnell School of Forestry and Natural Resources, University of Georgia, Athens, Georgia. The effect of predation on white-tailed deer recruitment at the Joseph W. Jones Ecological Research Center.

Jackson, Dr. Rhett. Professor of Hydrology, Warnell School of Forest Resources, University of Georgia, Athens, Georgia. Minimum explanatory complexity and the impossibility of universal stream channel classification.

Johnson, Dr. Lucinda B. Senior Research Associate, Center for Water and the Environment, Natural Resources Research Institute, University of Minnesota, Duluth, Minnesota. Effects of climate change and anthropogenic stressors on amphibians.

Kitron, Dr. Uriel. Professor and Chair, Environmental Studies, Emory University, Atlanta, Georgia. Vector-borne and zoonotic diseases: Climate, landscape and transmission.

LaDeau, Dr. Shannon L. Ecologist, Cary Institute of Ecosystem Studies, Millbrook, New York. Spatial and temporal drivers of West Nile virus ecology in North America.

Loescher, Dr. Hank. Senior Systems Scientist, National Ecological Observatory Network, Boulder Colorado. What is NEON project science and what it means to scientists.

Madden, Dr. Marguerite. Professor and Director, Center for Remote Sensing and Mapping Science, Department of Geography, University of Georgia, Athens, Georgia. Natural and cultural resources of national parks: Manual maps to geographic object-based image analysis and geovisualization.

Markewitz, Dr. Daniel. Associate Professor, Warnell School of Forestry and Natural Resources, University of Georgia, Athens, Georgia. Incorporating spatial dependence into sampling designs for estimating soil carbon contents under different landcovers.

McEntire, Julie. M. S. Student, Odum School of Ecology, University of Georgia, Athens, Georgia. Sources and cycling of nutrients in a subtropical reservoir.

Quintana-Ascencio, Dr. Pedro. Associate Professor, Department of Biology, University of Central Florida, Orlando, Florida. Fire influences plant Population Genetics and Demographic Spatial Structure.

***Pyne, Dr. Stephen.** Professor, Human Dimensions Faculty, School of Life Sciences, Arizona State University, Tempe, Arizona. Between two fires.

Smith, Dr. Lora. Associate Scientist, Wildlife Ecology, Joseph W. Jones Ecological Research Center, Newton, Georgia. Don't Tread on Me... Snake Safety at Ichauway.

***Selzer, Lawrence.** President, The Conservation Fund, Arlington, Virginia. Working forests: Critical infrastructure for the nation.

Staudhammer, Dr. Christina. Assistant Professor, Forest Biometrics, School of Forest Resources and Conservation, University of Florida, Gainesville, Florida. Modeling data repeated over time and space: Trigonometric random regression, spatial autocorrelation structures and other creative approaches.

Sterrett, Sean. M.S. Student, Warnell School of Forestry and Natural Resources, University of Georgia, Athens, Georgia. The Ecology and Influence of Land Use on River Turtles in Southwest Georgia.

Way, Dr. Albert. Postdoctoral Fellow, Institute for Southern Studies, University of South Carolina, Columbia, South Carolina. Burned to be wild: Herbert L. Stoddard and the roots of ecological conservation in the Southern Coastal Plain.

* Distinguished Lecture Series Speaker