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Form **990-PF**Department of the Treasury
Internal Revenue Service**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

OMB No 1545-0052

2012

Open to Public Inspection

For calendar year 2012 or tax year beginning January 01, 2012, and ending December 31, 2012

Name of foundation Ichauway, Inc dba Joseph W Jones Ecological Research Center		A Employer identification number 58-1824778
Number and street (or P O box number if mail is not delivered to street address) 3988 Jones Center Drive	Room/suite	B Telephone number (see instructions) 229-734-4706
City or town, state, and ZIP code Newton, GA 39870		C If exemption application is pending, check here ☐
G Check all that apply. ☐ Initial return ☐ Initial return of a former public charity ☐ Final return ☐ Amended return ☐ Address change ☐ Name change		D 1. Foreign organizations, check here ☐ 2. Foreign organizations meeting the 85% test, check here and attach computation ☐
H Check type of organization ☒ Section 501(c)(3) exempt private foundation ☐ Section 4947(a)(1) nonexempt charitable trust ☐ Other taxable private foundation		E If private foundation status was terminated under section 507(b)(1)(A), check here ☐
I Fair market value of all assets at end of year (from Part II, col. (c), line 16) \$ 14,820,720	J Accounting method. ☐ Cash ☒ Accrual ☐ Other (specify) _____	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 instructions))

	(a) Revenue and expenses per books	(b) Net investment income	(c) Adjusted net income	(d) Disbursements for charitable purposes (cash basis only)
Revenue				
1 Contributions, gifts, grants, etc., received (attach schedule)	18,479,328			
2 Check ☐ if the foundation is not required to attach Sch B				
3 Interest on savings and temporary cash investments	6,595	6,595	6,595	
4 Dividends and interest from securities	0	0	0	
5a Gross rents	6,240	6,240	6,240	
b Net rental income or (loss)	6,240			
6a Net gain or (loss) from sale of assets not on line 10	0			
b Gross sales price for all assets on line 6a	0			
7 Capital gain or (loss) from sale of assets on line 6a	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)	267,714	0	0	
12 Total. Add lines 1 through 11	18,759,877	12,835	12,835	
Operating and Administrative Expenses				
13 Compensation of officers, directors, trustees, etc.	0	0	0	0
14 Other employee salaries and wages	4,286,505	7,884	7,884	4,258,251
15 Pension plans, employee benefits	1,900,100	3,575	3,575	1,893,188
16a Legal fees (attach schedule)	12,688	0	0	12,221
b Accounting fees (attach schedule)	31,204	10,921	10,921	20,283
c Other professional fees (attach schedule)	99,488	0	0	87,432
17 Interest	0	0	0	0
18 Taxes (attach schedule) (see instructions)	150,239	0	0	150,239
19 Depreciation (attach schedule) and depletion	525,082	0	0	
20 Occupancy	325,212	0	0	326,920
21 Travel, conferences, and meetings	140,409	0	0	142,372
22 Printing and publications	9,909	0	0	11,087
23 Other expenses (attach schedule)	1,791,537	0	0	1,786,368
24 Total operating and administrative expenses. Add lines 13 through 23	9,272,373	22,380	22,380	8,688,361
25 Contributions, gifts, grants paid	116,101			131,779
26 Total expenses and disbursements. Add lines 24 and 25	9,388,474	22,380	22,380	8,820,140
27 Subtract line 26 from line 12				
a Excess of revenue over expenses and disbursements	9,371,403			
b Net investment income (if negative, enter -0-)		0		
c Adjusted net income (if negative, enter -0-)			0	

For Paperwork Reduction Act Notice, see instructions.

Cat No 11289X

Form **990-PF** (2012)SCANNED MAY 29 2013
Operating and Administrative ExpensesRECEIVED
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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	114,324	147,357	147,357
	2	Savings and temporary cash investments	2,402,810	7,988,708	7,988,708
	3	Accounts receivable ▶ 631			
		Less: allowance for doubtful accounts ▶ 0	1,688	631	631
	4	Pledges receivable ▶ 0			
		Less: allowance for doubtful accounts ▶ 0	0	0	0
	5	Grants receivable	99,281	4,112,239	4,112,239
	6	Receivables due from officers, directors, trustees, and other disqualified persons (attach schedule) (see 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	94,117	91,759	91,759
	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
Liabilities	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 ▶ 17,128,954			
		Less: accumulated depreciation (attach schedule) ▶ 14,648,928	2,707,730	2,480,026	2,480,026
	15	Other assets (describe ▶ 0)	0	0	0
	16	Total assets (to be completed by all filers—see the instructions. Also, see page 1, item I)	5,419,950	14,820,720	14,820,720
	17	Accounts payable and accrued expenses	523,137	486,324	
	18	Grants payable	0	0	
	19	Deferred revenue	118,036	184,216	
	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	0	
	23	Total liabilities (add lines 17 through 22)	641,173	670,540	
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	4,778,777	5,150,180	
	25	Temporarily restricted	0	9,000,000	
	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 instructions) . .	4,778,777	14,150,180	
	31	Total liabilities and net assets/fund balances (see instructions)	5,419,950	14,820,720	

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	4,778,777
2	Enter amount from Part I, line 27a	2	9,371,403
3	Other increases not included in line 2 (itemize) ▶	3	0
4	Add lines 1, 2, and 3	4	14,150,180
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	14,150,180

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				
b				
c				
d				
e				
Complete only for assets showing gain in column (h) and owned by the foundation on 12/31/69			(i) Gains (Col. (h) gain minus col. (k), but not less than -0-) or Losses (from col. (h))	
(i) F.M.V. as of 12/31/69	(j) Adjusted basis as of 12/31/69	(k) Excess of col. (i) over col. (j), if any		
a				
b				
c				
d				
e				
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	
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 instructions). If (loss), enter -0- in Part I, line 8.			3	

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.

(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))
2011	8,843,171	846,993	10.440666
2010	8,381,419	1,000,000	8.381419
2009	8,220,233	1,000,000	8.220233
2008	8,390,502	1,000,000	8.390502
2007	8,603,383	1,000,000	8.603383
2 Total of line 1, column (d)			2 44.036203
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 8.807241
4 Enter the net value of noncharitable-use assets for 2012 from Part X, line 5.			4 846,993
5 Multiply line 4 by line 3.			5 7,459,671
6 Enter 1% of net investment income (1% of Part I, line 27b).			6 0
7 Add lines 5 and 6.			7 7,459,671
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.			8 9,117,518

Part VI Excise Tax Based on Investment Income (Section 4940(a), 4940(b), 4940(e), or 4948—see 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	2012 estimated tax payments and 2011 overpayment credited to 2012	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 2013 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?	1a	✓
b Did it spend more than \$100 during the year (either directly or indirectly) for political purposes (see Instructions for the 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>	1b	✓
c Did the foundation file Form 1120-POL for this year?	1c	✓
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>	2	✓
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>	3	✓
4a Did the foundation have unrelated business gross income of \$1,000 or more during the year?	4a	✓
b If "Yes," has it filed a tax return on Form 990-T for this year?	4b	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>	5	✓
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?	6	✓
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 XV</i>	7	✓
8a Enter the states to which the foundation reports or with which it is registered (see instructions) ▶ Georgia		
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>	8b	✓
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 2012 or the taxable year beginning in 2012 (see instructions for Part XIV)? <i>If "Yes," complete Part XIV</i>	9	✓
10 Did any persons become substantial contributors during the tax year? <i>If "Yes," attach a schedule listing their names and addresses</i>	10	✓

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 instructions)	11		✓
12	Did the foundation make a distribution to a donor advised fund over which the foundation or a disqualified person had advisory privileges? If "Yes," attach statement (see instructions)	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 ▶ Erik S. Johnson - Secretary Telephone no. ▶ (404)522-6755 Located at ▶ 191 Peachtree Street NE, Suite 3540 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			
16	At any time during calendar year 2012, did the foundation have an interest in or a signature or other authority over a bank, securities, or other financial account in a foreign country? See the instructions for exceptions and filing requirements for Form TD F 90-22.1 If "Yes," enter the name of the foreign country ▶ N/A	16	Yes	No ✓

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 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 2012?	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 2012, did the foundation have any undistributed income (lines 6d and 6e, Part XIII) for tax year(s) beginning before 2012? ☐ 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 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 2012 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 2012.)	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 2012?	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 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 instructions)? ☐ Yes ☒ No

Organizations relying on a current notice regarding disaster assistance check here ☐ **5b** **N/A**

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? ☐ Yes ☒ No

If "Yes" to 6b, file Form 8870. **6b** ☐ Yes ☒ No

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? ☐ Yes ☐ No **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 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 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 0	195,990	16,326	9,600
Robert J Mitchell 3988 Jones Center Drive, Newton, GA 39870	Scientist 40 0	148,489	12,369	0
Paul V McCormick 3988 Jones Center Drive, Newton, GA 39870	Scientist 40 0	122,400	10,196	0
James B Atkinson 3988 Jones Center Drive, Newton, GA 39870	Nat Res Manager 40 0	119,360	9,943	0
L Kay Kirkman 3988 Jones Center Drive, Newton, GA 39870	Scientist 40 0	113,578	9,461	0
Total number of other employees paid over \$50,000				18

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 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

**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	8,820,140
2 See attached report from the Director	0
3	0
4	0

Part IX-B Summary of Program-Related Investments (see 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 instructions.	0
3	0
Total. Add lines 1 through 3	0

Part X Minimum Investment Return (All domestic foundations must complete this part. Foreign foundations, see 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	2,994,590
c	Fair market value of all other assets (see instructions)	1c	0
d	Total (add lines 1a, b, and c)	1d	2,994,590
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	2,994,590
4	Cash deemed held for charitable activities. Enter 1 1/2 % of line 3 (for greater amount, see instructions)	4	2,147,597
5	Net value of noncharitable-use assets. Subtract line 4 from line 3. Enter here and on Part V, line 4	5	846,993
6	Minimum investment return. Enter 5% of line 5	6	42,350

Part XI Distributable Amount (see 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 2012 from Part VI, line 5	2a	
b	Income tax for 2012 (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 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 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	8,820,140
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	297,378
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	9,117,518
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 instructions)	5	0
6	Adjusted qualifying distributions. Subtract line 5 from line 4	6	9,117,518

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 instructions)

	(a) Corpus	(b) Years prior to 2011	(c) 2011	(d) 2012
1 Distributable amount for 2012 from Part XI, line 7				0
2 Undistributed income, if any, as of the end of 2012				
a Enter amount for 2011 only			0	
b Total for prior years 20____, 20____, 20____		0		
3 Excess distributions carryover, if any, to 2012:				
a From 2007 None				
b From 2008 None				
c From 2009 None				
d From 2010 None				
e From 2011 None				
f Total of lines 3a through e	0			
4 Qualifying distributions for 2012 from Part XII, line 4 ▶ \$ _____				
a Applied to 2011, but not more than line 2a			0	
b Applied to undistributed income of prior years (Election required—see instructions)		0		
c Treated as distributions out of corpus (Election required—see instructions)	0			
d Applied to 2012 distributable amount				0
e Remaining amount distributed out of corpus	0			
5 Excess distributions carryover applied to 2012 (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 instructions		0		
e Undistributed income for 2011 Subtract line 4a from line 2a Taxable amount—see instructions			0	
f Undistributed income for 2012. Subtract lines 4d and 5 from line 1 This amount must be distributed in 2013				0
7 Amounts treated as distributions out of corpus to satisfy requirements imposed by section 170(b)(1)(F) or 4942(g)(3) (see instructions)	0			
8 Excess distributions carryover from 2007 not applied on line 5 or line 7 (see instructions)	0			
9 Excess distributions carryover to 2013. Subtract lines 7 and 8 from line 6a	0			
10 Analysis of line 9:				
a Excess from 2008	0			
b Excess from 2009	0			
c Excess from 2010	0			
d Excess from 2011	0			
e Excess from 2012	0			

Part XIV Private Operating Foundations (see 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 2012, enter the date of the ruling 7/25/1989
- b.** Check box to indicate whether the foundation is a private operating foundation described in section ☒ 4942(j)(3) or ☐ 4942(j)(5)

2a	Tax year				(e) Total
	(a) 2012	(b) 2011	(c) 2010	(d) 2009	
Enter the lesser of the adjusted net income from Part I or the minimum investment return from Part X for each year listed	0	0	0	0	0
b 85% of line 2a	0	0	0	0	0
c Qualifying distributions from Part XII, line 4 for each year listed	9,117,518	8,843,171	8,381,419	8,220,233	34,562,341
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	9,117,518	8,843,171	8,381,419	8,220,233	34,562,341
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	28,233	28,233	33,333	33,333	123,132
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 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 instructions) to individuals or organizations under other conditions, complete items 2a, b, c, and d.

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

Lindsay R Boring
3988 Jones Center Drive, Newton, GA 39870

- 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 Name and address (home or business)	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
a Paid during the year				
Virginia Polytechnic Institute and State University P O Box 12487, Roanoke, VA 24026-2487		509(a)(2)	Research	112,499
The Nature Conservancy of Florida 222 South Westmonte Drive, Suite 300 Altamonte Springs, FL 32714		509(a)(2)	Research	2,459
University of Florida Board of Trustees P O Box 113001 Gainesville, FL 32611		509(a)(1)	Research	543
Baker County 4-H Club P O Box 220, Newton, GA 39870		509(a)(1)	Misc Contribution	500
Bainbridge Humane Society 1250 Cox Avenue, Bainbridge, GA 39818		509(a)(2)	Misc Contribution	100
				116,101
			2011 Accrual	20,098
			2012 Accrual	(4,420)
Total			3a	131,779
b Approved for future payment				
None				
Total			3b	0

Enter gross amounts unless otherwise indicated

(See worksheet in line 13 instructions to verify calculations.)

Line No. ▼	Explain below how each activity for which income is reported in column (e) of Part XVI-A contributed importantly to the accomplishment of the foundation's exempt purposes (other than by providing funds for such purposes) (See instructions)
---------------	---

[illegible]

1	Did the organization directly or indirectly engage in any of the following with any other organization described in section 501(c) of the Code (other than section 501(c)(3) organizations) or in section 527, relating to political organizations?		Yes	No
a	Transfers from the reporting foundation to a noncharitable exempt organization of:			
	(1) Cash	1a(1)		✓
	(2) Other assets	1a(2)		✓
b	Other transactions:			
	(1) Sales of assets to a noncharitable exempt organization	1b(1)		✓
	(2) Purchases of assets from a noncharitable exempt organization	1b(2)		✓
	(3) Rental of facilities, equipment, or other assets	1b(3)		✓
	(4) Reimbursement arrangements	1b(4)		✓
	(5) Loans or loan guarantees	1b(5)		✓
	(6) Performance of services or membership or fundraising solicitations	1b(6)		✓
c	Sharing of facilities, equipment, mailing lists, other assets, or paid employees	1c		✓
d	If the answer to any of the above is "Yes," complete the following schedule. Column (b) should always show the fair market value of the goods, other assets, or services given by the reporting foundation. If the foundation received less than fair market value in any transaction or sharing arrangement, show in column (d) the value of the goods, other assets, or services received			

[illegible]

2a Is the foundation directly or indirectly affiliated with, or related to, one or more tax-exempt organizations described in section 501(c) of the Code (other than section 501(c)(3)) or in section 527? ☐ Yes ☒ No

b If "Yes," complete the following schedule

(a) Name of organization	(b) Type of organization	(c) Description of relationship

**Sign
Here**

Under penalties of perjury, I declare that I have examined this return, including accompanying schedules and statements, and to the best of my knowledge and belief, it is true, correct, and complete. Declaration of preparer (other than taxpayer) is based on all information of which preparer has any knowledge.

Signature of officer or trustee

5-10-2013
Date

President
Title

May the IRS discuss this return with the preparer shown below (see instructions)? ☐ Yes ☐ No

**Paid
Preparer
Use Only**

Print/Type preparer's name

Preparer's signature

Date

Check ☐ if self-employed

PTIN

Firm's name ▶

Firm's EIN ►

Firm's address ►

Phone no

Schedule B(Form 990, 990-EZ,
or 990-PF)Department of the Treasury
Internal Revenue Service**Schedule of Contributors**

▶ Attach to Form 990, Form 990-EZ, or Form 990-PF.

OMB No 1545-0047

2012**Name of the organization****Employer identification number**

Ichauway, Inc dba Joseph W Jones Ecological Research Center

58-1824778

Organization type (check one):**Filers of:****Section:**

Form 990 or 990-EZ

☐ 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 foundationCheck 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) and 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, total 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 total 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 its Form 990; or check the box on line H of its Form 990-EZ or on Part I, 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).

Name of organization	Employer identification number
Ichauway, Inc dba Joseph W Jones Ecological Research Center	58-1824778

Part I Contributors (see instructions). Use duplicate copies of Part I if additional space is needed.

(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
1	Robert W Woodruff Foundation 191 Peachtree Street, NE, Suite 3540 Atlanta, GA 30303	\$ 17,970,000	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution)
2	Strategic Environmental Research and Development Program 801 North Stuart Street, Suite 303 Arlington, VA 22203	\$ 263,061	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution)
3	Georgia Department of Natural Resources, Wildlife Resources 2070 U S Highway 278, SE Social Circle, GA 30025	\$ 80,824	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution)
4	USDA Forest Service - Southern Research Station 200 WT Weaver Boulevard Asheville, NC 28804	\$ 63,895	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution)
5	National Fish and Wildlife Foundation 1120 Connecticut Avenue, NW, Suite 900 Washington, DC 20036	\$ 31,014	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution)
6	The Nature Conservancy - Flint River Basin Office 65 11th Avenue NE Cario, GA 39828	\$ 29,519	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution)

Name of organization ICHAUWAY, Inc dba Joseph W Jones Ecological Research Center	Employer identification number 58-1824778
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Part I Contributors (see instructions). Use duplicate copies of Part I if additional space is needed.

(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
7	U S Fish and Wildlife Service 1875 Century Boulevard Atlanta, GA 30345	\$ 25,865	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 AFB, GA 31699-1707	\$ 15,150	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution)
		\$	Person ☐ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution)
		\$	Person ☐ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution)
		\$	Person ☐ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution)
		\$	Person ☐ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution)
		\$	Person ☐ Payroll ☐ Noncash ☐ (Complete Part II if there is a noncash contribution)

Ichauway, Inc.
Form 990-PF, Year 2012, Page 1, Part I, Line 1.
Contributors During 2012

58-1824778

Robert W. Woodruff Foundation, Inc. 191 Peachtree Street, NE, Suite 3540 Atlanta, Georgia 30303	\$17,970,000
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Strategic Environmental Research Development Program 801 North Stuart Street, Suite 303 Arlington, VA 22203	\$263,061
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Georgia Department of Natural Resources, Wildlife Resources Division 2070 U.S. Highway 278, SE Social Circle, GA 30025	\$80,824
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USDA Forest Service - Southern Research Station 200 WT Weaver Boulevard Asheville, NC 28804	\$63,895
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National Fish and Wildlife Foundation 1120 Connecticut Ave., NW, Suite 900 Washington, DC 20036	\$31,014
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The Nature Conservancy - Flint River Basin Office 65 11th Avenue NE Cairo, GA 39828	\$29,519
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U.S. Fish and Wildlife Service 1875 Century Boulevard Atlanta, GA 30345	\$25,865
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U.S. Army c/o Moody AFB 23 CES/CEAN 3485 Georgia Street Moody AFB, GA 31699-1707	\$15,150
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\$18,479,328

Line 11 Other Income

Timber Sales	\$	236,272
Milo Sales		31,442
Total	\$	267,714

Line 16(a), Legal Fees

R.C. Richardson	\$	1,000
Ogletree, Deakins, Nash, Smoak & Stewart		11,688
Total	\$	12,688

Line 16(b), Accounting Fees

Deloitte & Touche	\$	31,204
Total	\$	31,204

Line 16(c), Other Professional Fees

Suntrust Banking Fees	\$	695
Scientific Advisors		25,000
Service Consultants		73,793
Total	\$	99,488

Line 18, Taxes

Real Estate/Property Taxes	\$	136,100
Baker County Taxes		13,984
Misc. Taxes		155
Total	\$	150,239

Line 19 (990-PF) - Depreciation and Depletion

	Description	Date Acquired	Method of Computation	Asset Life	Cost or Other Basis	Beginning Accumulated Depreciation	(a) Revenue and expenses per books	(b) Net Investment Income	(c) Adjusted net Income
1	Buildings and improvements	Various	S/L	10-25 years	8,978,635	6,839,249	230,301	0	0
2	Furniture and fixtures	Various	DDB	5-7 years	690,535	689,824	1,173	0	0
3	Equipment	Various	DDB	7 years	1,841,504	1,753,531	41,458	0	0
4	Vehicles	Various	DDB	5 years	1,602,484	1,428,674	76,384	0	0
5	Lab Equipment	Various	DDB	7 years	1,564,076	1,327,083	71,388	0	0
6	Computer Equipment	Various	DDB	5 years	633,481	354,852	93,793	0	0
7	Infrastructure	Various	DDB	5-15 years	1,241,072	1,228,424	3,721	0	0
8	Other Equipment	Various	DDB	5-7 years	577,167	548,518	6,864	0	0
9	Construction in Progress	Various	N/A	N/A	0	0	0	0	0
10									

17,128,954 14,170,155 525,082

Ichauway, Inc.

58-1824778

Form 990-PF, Year 2012, Page 1, Part 1, Line 23(a)(d).

Other Expenses

General Supplies	\$	89,424
Office Supplies		13,233
Household Supplies		16,903
Misc. Supplies		7,743
Field Supplies		103,838
Grounds Supplies		167,720
Computer Supplies		9,552
Lab Supplies		49,079
Postage		8,161
Library Supplies		22,924
Miscellaneous		16,444
Uniforms		27,721
Fuel		299,270
Memberships & Dues		5,085
Maintenance Contracts		53,912
Equipment Lease		12,504
Maintenance & Repairs		131,772
Contract Services		132,231
Repairs		135,343
Contract Services/Computers		106,415
General Insurance		205,873
Graduate Assistantships		149,646
Minor Equipment		26,744
Total, Line 23(a)	\$	1,791,537
12/31/11 accrual of payables		63,782
12/31/12 accrual of payables		(68,951)
Total, Line 23(d)	\$	1,786,368

Part II, Line 14 (990-PF) - Land, Buildings, and Equipment

		17,128,954	14,170,155	14,648,928	2,707,730	2,480,026	2,480,026
	Item or Category	Cost or Other Basis	Accumulated Depreciation beg. Of year	Accumulated Depreciation end Of year	(a) Book value beg. of year	(b) Book value end of year	(c) FMV end of year
1	Buildings and improvements	8,978,635	6,839,249	7,069,550	1,921,943	1,909,085	1,909,085
2	Furniture and Fixtures	690,535	689,824	688,775	2,933	1,760	1,760
3	Equipment	1,841,504	1,753,531	1,789,275	91,040	52,229	52,229
4	Vehicles	1,602,484	1,428,674	1,502,115	149,603	100,369	100,369
5	Lab Equipment	1,564,076	1,327,083	1,387,252	206,718	176,824	176,824
6	Computer Equipment	633,481	354,852	424,434	277,784	209,047	209,047
7	Infrastructure	1,241,072	1,228,424	1,232,145	12,648	8,927	8,927
8	Other Equipment	577,167	548,518	555,382	15,149	21,785	21,785
9	Construction in Progress	0	0	0	29,912	0	0
10							
11							
12							
13							
14							
15							
16							
17							

(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 191 Peachtree Street NE, Suite 3540 Atlanta, Georgia 30303	President 5 hours per week	\$0	\$0	\$0
J Lee Trnble 191 Peachtree Street NE, Suite 3540 Atlanta, Georgia 30303	Treasurer 5 hours per week	0	0	0
Erk S Johnson 191 Peachtree Street NE, Suite 3540 Atlanta, Georgia 30303	Secretary 5 hours per week	0	0	0
TRUSTEES				
James B Williams 191 Peachtree Street NE, Suite 3540 Atlanta, Georgia 30303	Chairman Trustee 5 hours per week	0	0	0
James M Sibley 191 Peachtree Street NE, Suite 3540 Atlanta, Georgia 30303	V-Chairman 1 hour per week	0	0	0
Wilton Looney 191 Peachtree Street NE, Suite 3540 Atlanta, Georgia 30303	Trustee 1 hour per week	0	0	0
Charles H McTier 191 Peachtree Street NE, Suite 3540 Atlanta, Georgia 30303	Trustee 1 hour per week	0	0	0
E Jenner Wood III 191 Peachtree Street NE, Suite 3540 Atlanta, Georgia 30303	Trustee 1 hour per week	0	0	0
Total		\$0	\$0	\$0

Ichauway, Inc.

58-1824778

Form 990-PF, Year 2012, Page 8, Part X, Line 4

Cash held for charitable activities

All cash except for a working capital reserve of \$846,993 is used for charitable activities. The organization's annual funding is set at a level equal to budgeted expenses and all assets are used for and are directly related to carrying out the organization's primary charitable purpose. Temporary cash balances are invested short-term; however, other than the working capital reserve, all cash is on hand to fund current charitable activities.

Director's 2012 Annual Report to the Trustees of Ichauway, Inc.



*Green Grove Fire, Ichauway
Photo by Richard T. Bryant*

April 2, 2013

**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 of the landscape of the southeastern Coastal Plain of the United States.

Jones Center programs span and integrate natural resource conservation using many tools. These range from five long-term research projects to partnered university-level education and outreach activities focusing upon natural resource managers, state and federal agencies, policy-makers and private landowners. This past year was very productive as our activities continue to reach many people and organizations both in and outside our region and continue to increase in quality. The number of scientific publications was sustained, and the quality remained high with many overview/integrative papers. The Center sponsored over 40 onsite educational and outreach events with approximately 604 participants who averaged over two contact days each, and an Open House attracted an additional 531 visitors. Natural resource management activities contribute visionary and innovative approaches that improve forest, watershed and wildlife values of Ichauway. The Conservation program also provides an exceptional platform upon which we continue to build and evolve new educational and research projects. We are poised for a milestone year in 2013 as we will commemorate our twentieth year of successful programs, and will graduate our one hundredth participant in the cooperative university graduate student program.

Scientific Advisory Committee

Dr. Robert Naiman is now serving a rotation as the Chair of the SAC, effective January 1, 2013. He and the former Chair, Gene Likens, conducted a joint visit together with staff during August 21-24. Below are summary comments from outgoing Chair Likens following the visit:

"I had a rewarding summer visit to the Jones Center during 21-24 August 2012. Overall, I think the comment that I made in my introduction to the graduate students summarizes my reaction well, that I really couldn't have imagined this high level of program activity and achievement 20 years ago! I was particularly pleased to see the progress made on the (Ichauway) Conference planned for October 2013...I enjoyed the field trips very much. It probably has to do with my background and interests, but I believe that a field trip is actually the most efficient way to evaluate what is going on in a research or conservation project...Our various meetings with the Wildlife Research, America's Longleaf Initiative, Drought and Landuse Assessment, and Wetlands Research groups generally showed excellent progress, mature programs and visionary planning, and don't require detailed comment here...The graduate students constantly are a joy and the current group was no exception. The quality was uniformly high and the level of enthusiasm was exceptional."

This was a very useful joint visit given the transitional leadership of the SAC. Chair Likens has rotated from the regular SAC this year, and his membership slot is being filled with a new aquatic ecologist, Brian Richter, who leads The Nature Conservancy's Global Freshwater Initiative. Mr. Richter visited the Jones Center as our 2012 Distinguished Lecturer October 29 through November 2, and was later selected to serve on the SAC beginning in 2013. Dr. Jerry Franklin also made an individual visit to the Center during the year, concurrent with participating in one of our Ecological Forestry Workshops in the autumn. Robert Larimore, natural resource manager with US Department of Defense was deployed in the middle-east for the entire year and could not make a trip.

Research

General

Our Center funded long-term research is organized into five flagship projects, described in more detail below. These projects are led by our scientists but were enhanced by six visiting scientists, over 40 other collaborators, 28 graduate students, ten new external research grants awarded in 2012, and by education activities and events associated with each project.

These long-term research projects are provided with stable funding and are reviewed, revised and renewed on five year cycles. In the Center's nineteen years of research many of these projects now have longevity of data records which provide unique and highly valuable scientific and applied insights. Most exceed those of the usual research projects conducted elsewhere, which are generally short-term and funded annually or in two to three year spans. A good example is our wildlife predator research, which utilizes electric fences around four blocks of approximately 100 acres each to close out predators from prey species and examine ecological relationships among animal species and grazed vegetation. This research has been conducted for over ten years and has the longest continuity of data and one of the most valuable long term datasets among comparable wildlife programs.

Research Projects

The flagship research projects are complemented with additional but related outside funded projects that either expand our Ichauway projects, or extend our studies to be regional in scope with other valuable sites, cooperators and issues outside of Ichauway. In 2012 these were the key features for each long-term project:

1) Productivity and Biodiversity Patterns: Controls in a Coastal Plain Landscape: This project is being revised into a carbon focused study with a three-year plan. It is centered around the University of Alabama's three eddy-covariance towers and several newly designated field plots surrounding them. The tower data and field data are being integrated and published with collaborators at University of Edinburgh. A peer-review was conducted and the project was revised and approved for a three year research plan. An outside funded, model carbon sequestration project was completed this past year in partnership with the Pacific Forest Trust and was successfully published. In addition the towers are periodically instrumented to collect air quality data associated with prescribed burning.

2) Ecological Forestry:

This project is transitioning into a broader scope of research that continues the ongoing Stoddard-Neel silvicultural and prescribed fire studies but will expand to the landscape scale including longleaf pine restoration practices related to wildlife habitat and key species. A startup project on Restoration is beginning with preliminary studies of new directions and approaches. A new proposal with several investigators will be submitted over the next year, and it will integrate features of both projects.

3) Hydrologic Variation in the Lower Flint River Basin:

New sampling designs addressing environmental flows in critical sections of the watershed have resulted from the addition of a new senior scientist to the project this past year. Scientists organized and hosted a workshop on ACF Basin Ecohydrology to promote communication among numerous research and conservation organizations which address water management and research issues.

4) Ecological Role of Mesopredators, Effects of Control and Habitat Approaches: Research has expanded within the predator exclosure study to better understand deer population and foraging behavioral influences upon vegetation and forest structure related to stress from coyote predation. Fire ant influences upon small mammals and lizards are also being examined in smaller scale experimental exclosures to better understand their impacts upon native wildlife. Gopher Tortoise research, regional monitoring, outreach and policy advisement was expanded this past year in response to the tortoise being considered for federal

listing status. We signed a Candidate Conservation Agreement to work toward better regional conservation of the species and to avoid federal listing.

5) Depressional Wetlands in the Coastal Plain Landscape:

Research has been deployed throughout the Dougherty Plain to assess the impacts of urban and agricultural land use conversions on the ecological services of limesink wetlands. Current research is addressing land use issues related to hydrology, wildlife, mosquito species and populations, and climatic variability. Some parts of this work ultimately will be integrated with water resource studies within the Flint River Basin study.

Highlights

In addition to the above, several other general research related achievements were attained this past year and these highlights follow:

- 1) Funding was awarded by the National Science Foundation and matched by the Department of Defense and the USDA Forest Service Southern Research Station to sponsor a 2013 Ichauway Research Conference on the complex interactions of climate, landuse and invasive species effects on the future management of ecosystems.
- 2) Brian Richter (The Nature Conservancy Global Freshwater Team Leader) was the 2012 Ichauway Distinguished Lecturer.
- 3) The Jones Center began hosting the National Ecological Observatory Network (NEON) after being selected as one of three partnering research sites in the southeast. The instrument tower and most civil construction were completed this past year with installation of terrestrial and aquatic sensor systems to follow in 2013.
- 4) A partnership project with the Pacific Forest Trust funded by the Dobbs Foundation resulted in a publication about a model study of longleaf pine carbon storage. This revealed some major challenges of integrating carbon science and forest management /prescribed fire into policies related to carbon trading and sequestration.
- 5) The UGA Press book Natural Communities of Georgia, co-authored by Dr. Kay Kirkman, was completed and in press. Her contributions were to write major sections about conservation, and the regional description of coastal plain natural history, including much of the Jones Center's cumulative research and knowledge.

Productivity

Our research program continues to achieve a high level of productivity. In 2012 our Staff published (or had in press) 42 articles in peer-reviewed research journals and thirteen outreach and other publications. Numerous presentations were given by staff and graduate students at national and regional professional meetings. A total of 28 graduate students from five universities were supported by the Center in this past year.

External Support and Collaboration

Our staff secured external funding for research and outreach programs that is compatible with organizational objectives. These awards in 2012 were \$509,328 for eighteen projects from the following sources:

- 1) US Department of Defense Strategic Environmental Research and Development Program (DOD-SERDP) (1)
- 2) National Fish and Wildlife Foundation (NFWF) (3)
- 3) US Department of Defense at Moody Air Force Base (1)
- 4) The Nature Conservancy (1)
- 5) GA Department of Natural Resources (3)
- 6) USDA Forest Service Southern Research Station (2)
- 7) US Department of Energy (DOE), National Institute for Climate Change Research at Duke University (1)
- 8) US Fish and Wildlife Service (2)
- 9) US Department of the Army (University of Missouri) (1)
- 10) National Science Foundation (1)
- 11) National Wild Turkey Federation (1)
- 12) R. Howard Dobbs Foundation (1)

Education and Outreach

General

Our Education and Outreach program had a very active year with 40 groups and 604 participants visiting the Center for workshops, field tours, university accredited Maymester courses, continuing education courses, and special events. Besides university students (42% of total) we had numerous special events for natural resource professionals, agencies, and other conservation groups (58%). The average contact time for visitors this past year was 2.2 days each. We also attracted 531 visitors to our Open House. All staff participated in these programs, which are

generally led and coordinated by Education Staff. Both Research and Conservation staff are key participants, and most have these activities included as supplemental parts of their job descriptions. There are also significant contributions that the Jones Center makes regionally and nationally by participating in off-site regional and national meetings, partnering with other organizations, and as science and conservation advisors on topics such as regional water resources, longleaf pine restoration and management, and prescribed fire. Highlights on several of these topics are below with details listed in the Appendix.

On-Site Education and Outreach Activities

A total of ten university student groups attended Center short courses, field tours, and other events, with visits ranging from one to three days. Field trip topics included forest ecology, fire ecology, wildlife management, forestry, conservation biology, wetland ecology, hydrology and aquatic ecology. Ten different universities were represented this past year, with most groups from University of Georgia, University of Florida, and others from Georgia such as Emory, Berry, and Mercer.

We also conducted four week-long "Maymester" classes for UGA and UF as 2 semester hour courses for advanced undergraduates and graduate students. The courses were Prescribed Fire, Longleaf Pine Ecology and Management, Coastal Plain Ecosystems and Conservation, and Wildlife Field Methods.

Our education/outreach events and advisement for natural resource professionals, agencies and other organizations have steadily grown to comprise 58% of our total annual attendance. The diversity of our staff permits us to offer a broad range of on-site activities and events, especially in the areas of prescribed fire, ecological restoration, ecology and management of longleaf pine, imperiled species management, and water resource issues.

There were two very important meetings at Ichauway this past year with state agency heads of the GA Department of Natural Resources, including the Wildlife Resources Division and the Environmental Protection Division. The two meetings focused upon Center research and knowledge of longleaf pine management, and hydrology and ecology of the Lower Flint River Basin. Center staff provided science presentations and discussion of key issues related to both forest and water management by the state of Georgia.

Off-Site Education and Outreach Activities

Our off-site advisement and outreach to natural resource professionals, agencies, policy makers and conservation groups has grown in importance with the advent of regional conservation partnerships that we have assisted or fostered ourselves. These are significant contributions focused largely upon regional restoration and

management efforts with longleaf pine (e.g. Longleaf Pine Restoration Initiative), the Georgia Prescribed Fire Council and the National Coalition of Fire Councils, and water resource advisory roles with Apalachicola-Chattahoochee-Flint Basin issues to state and federal agencies and officials, and non-governmental organizations.

Longleaf pine conservation and restoration activities offsite included meetings and events starting with the Longleaf Partnership Council. This produced the 2009 Rangewide Conservation Plan for Longleaf Pine which seeks to double the acreage of longleaf from four to eight million acres by 2025. Center staff has been actively engaged in this federal/state/private partnership since it began in 2007. This past year the Center participated in at least ten events and efforts off-site, primarily with regional restoration and management planning exercises with the East Gulf Coastal Plain Joint Venture, the Chattahoochee Fall Line Conservation Partnership, Apalachicola Regional Stewardship Alliance, and the South Carolina Lowcountry Forest Conservation Partnership. Advisory visits were also made to other US Forest Service and National Fish and Wildlife Foundation events.

Our staff provides leadership to the Georgia Prescribed Fire Council and to the national Coalition of Prescribed Fire Councils. We also support the national efforts that are related to policies for smoke management from wildland fires, and the Southeast Regional Partnership for Planning and Sustainability, which helps coordinate regional decision making among agencies. This effort also promotes implementation of the Rangewide Conservation Plan for Longleaf Pine which necessitates more coordination of the use of prescribed fire.

Conservation and Land Management

Stewardship of Ichauway

Many land management activities continued routinely as in prior years in the major areas of agriculture, wildlife management, hunting, roads and firebreaks, restoration and research support.

There were 11,941 acres burned by prescription in 2012. This acreage was down relative to the annual targeted acreage due to the dry conditions during the year. The majority of the acreage was burned in the spring and early summer (through May) with a smaller component burned in the summer and fall.

Approximately 125 acres were treated for hardwood removal and cleanup by Jones Center personnel in targeted areas of the property using our feller-buncher. In 2012 almost all hardwood cleanup was carried out in the Turkey Woods along road and

field edges and some additional removals in the surrounding upland pine matrix.

Herbicides were routinely applied to further 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 (i.e., spot treatments) to provide additional control of hardwoods in areas under restoration.

Operational treatments of Japanese climbing fern (*Lygodium japonicum*) continued in 2012, focused primarily along the Flint River corridor (along River Road). Areas sprayed in previous years were revisited for follow-up spot treatments to insure control, and additional acres were treated for the first time. All treated areas were monitored to determine what plants first become established following the removal of *Lygodium* and to assess the need for any additional treatments.

The removal of feral hogs continued in 2012, though far fewer individuals (5) were removed than in previous years. The acquisition and training of dogs to run down and capture the hogs continues to enhance our ability to control this species.

Salvage operations were continued to utilize dead trees that present hazard situations (primarily along roads or firebreaks). Recently dead trees—typically from lightning strikes or blowdown—are harvested and taken to the portable sawmill where they are cut to rough sizes for storage. When needed, this wood is utilized as posts (4x4, 6x6 or 8x8) in sheds and fences or run through the planer to produce finished dimensions for use in onsite construction, repairs and renovations. Use of this valuable resource has increased markedly in recent years with the many renovation projects conducted onsite.

Three slash pine plantation stands, all planted in 1987, were harvested in a second thinning operation in January of 2012. Canopy gaps were created during the marking process, and these gaps were planted with 15,000 longleaf pine seedlings in December to begin the species conversion process.

A 550 acre timber harvest was conducted in November and December of 2012 in mature pine forests located in three areas of the property: the 74-year-old slash pine plantation located near the Center's entrance drive, mixed pine woods adjacent to the ballfield and the mature slash pine located along the north side of highway 91, and the eastern half of the demonstration area in natural longleaf pine forest between Vernon Hall and Whitehead roads. The marking process utilized the Stoddard-Neel approach to individual tree selection, with gaps created in the entrance slash plantation for continued conversion to longleaf pine through underplanting.

Conservation Management Demonstration Area

In 2012 ongoing management activities, such as prescribed fire and agricultural field management, were carried out in the Conservation Management Demonstration Area (CMDA). In addition, the timber harvest described above was conducted in half of the CMDA as part of the longterm demonstration. The CMDA continues to be frequently visited during outreach events by many different audiences, and several active research projects within the unit were supported by Conservation personnel (primarily through implementing specific burning prescriptions).

Apprenticeship (Intern) Program

Three apprentices participated in the program during 2011. Bradley Bennett (a December 2010 UGA graduate) started the program in January 2011 and left in February 2012 for an assistant manager position at a private hunting property in Aliceville, Alabama. Allen Simms (a May 2011 UGA graduate) joined the program in August 2011 and continued until November 2012 when he took a position with an environmental consulting firm in Forsyth, Georgia. Charles "Chaz" Oliver (a May 2011 UGA graduate) started the program in August 2012 and continues in the position in 2013.

Monitoring

Measurements were continued in the long-term forest monitoring (LTM) plots in 2012. Analysis of data and development of summaries progressed rapidly with the development of new summary reports and developing links between the data base and the Center's GIS. Use of these extensive data by research personnel (scientists, technicians and graduate students) continues to increase, both for locating research projects and in developing presentations and publications, as the longterm data accumulates with additional measurements.

Spotlight and track counts were continued 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 hunting guidelines for the property.

The Center 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 once again in the early fall to assess bobwhite population levels before the hunting season.

Red-Cockaded Woodpecker Recovery and Management

Successful restoration of the RCW population on Ichauway continued in 2012, with the population again increasing following the minor declines observed in some recent years.

In 2012 there were twenty-two active clusters, seventeen breeding pairs and a total of 70 birds in the population. The long-term restoration goal is to have 30 active clusters with at least 25 breeding pairs.

The resident RCW breeding pairs produced seventeen successful nests with sixteen juveniles banded and fledged. Six birds (three pairs) were translocated to Ichauway in 2012 from Eglin Air Force Base in northwest Florida.

Budget Summary

The total budget for Ichauway, Inc. and the Joseph W. Jones Ecological Research Center for 2012 was \$9,496,328 of which \$8,987,000 was the board-approved internally funded budget and \$509,328 was to be funded from outside grants. The major source of funding for this budget was a grant from the Robert W. Woodruff Foundation in the amount of \$8,970,000.

All divisions of Ichauway operated within budget in 2012. Expenses for Research and support activities were \$3,381,845. Conservation and Land Management expenses were \$2,076,451. The expenses for Education and Outreach activities were \$563,253. Expenses for Administration, Maintenance and Operations were \$2,841,843, which also included overall Center operating expenses such as taxes, electric power and insurance costs.

APPENDIX

DIRECTOR'S 2012 ANNUAL REPORT to the TRUSTEES OF ICHAUWAY, INC.



*Dr. Mike Conner presents to participants of Landowner Field Day
Photo by Richard T. Bryant*

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Publications, Presentations and Grants

"In Press" Publications

Averill-Murray, R., L. Allison and L. L. Smith. Nesting and reproductive output among North American tortoises. In: D. Rostal, H. R. Mushinsky and E. D. McCoy (eds.). Biology and conservation of North American tortoises. University of California Press, Berkeley, California.

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Botello, G., S. W. Golladay, A. P. Covich, D. Batzer and M. Blackmore. Larval mosquito assemblages in agricultural wetlands of southwestern Georgia: Investigating the influence of surrounding land use. Annual Meeting Association of Southeastern Biologists, Athens, Georgia. Poster presentation.

Botello, G. M., S. W. Golladay and A. P. Covich. Investigating the effects of agricultural land use on larval mosquito assemblages in isolated wetlands of southwestern Georgia. Ecological Society of America Meeting, Portland, Oregon. Poster presentation.

Cherry, M. J., L. M. Conner, J. C. Rutledge, L. L. Smith and R. J. Warren. White-tailed deer site selection in response to predator exclusion. The 35th Annual Southeast Deer Study Group Meeting, Sandestin, Florida. Oral presentation.

Cherry, M. J., L. M. Conner, J. C. Rutledge, L. L. Smith, R. J. Warren. White-tailed deer site selection in response to predator exclusion. The 75th Annual Meeting of the Association of Southeastern Biologists, Athens, Georgia. Oral presentation.

Cherry, M. J., L. M. Conner, J. C. Rutledge, L. L. Smith and R. J. Warren. White-tailed deer site selection in response to predator exclusion. The Warnell Graduate Student Association Symposium, Athens, Georgia. Oral presentation.

Cherry, M. J., M. A. Nelson, R. J. Warren, L. M. Conner. Photo sensors improve performance of vaginal implant transmitters. The 19th Annual Meeting of The Wildlife Society, Portland, Oregon. Oral presentation.

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Cherry, M. J., M. A. Nelson, L. M. Conner, R. J. Warren. Effects of landscape and habitat variables on prey behavior and predator mediated trophic cascades in southwestern Georgia. Georgia Department of Natural Resources, Wildlife Resources Division Research Meeting, Forsyth, Georgia.

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Cherry, M. J., M. A. Nelson, M. B. Howze, B. T. Rutledge, L. M. Conner, R. J. Warren. Ichauway Deer Predation Study 2004-2012. Deer Management Research Group Meeting, Albany, Georgia

Cherry, M.J. , R.J. Warren, L.M. Conner. 2012. Coyotes and bobwhite quail. Northeast Georgia Quail Unlimited Chapter meeting. Watkinsville, Georgia.

Cherry, M.J. , R.J. Warren, L.M. Conner. 2012. Integrating research and management: Asking the right questions. Abraham Baldwin Agricultural College Student Chapter of The Wildlife Society. Tifton, Georgia.

Colbert, D., L. M. Conner, R. J. Warren, and M. J. Chamberlain. 2012. Seasonal Gobbling Chronology in Hunted and Non-hunted Wild Turkey Populations in Southwestern Georgia. Georgia Chapter of The Wildlife Society Annual Meeting.

Colbert, D., L. M. Conner, R. J. Warren, and M. J. Chamberlain. 2012. Seasonal Gobbling Chronology in Hunted and Non-hunted Wild Turkey Populations in Southwestern Georgia. Georgia Department of Natural Resources, Wildlife Resources Division Update Meeting.

Deemy, J. B., J. Hepinstall-Cymerman, L. K. Kirkman and T. C. Rasmussen. Spatial modeling of potential hydrologic connectivity among isolated wetlands and jurisdictional surface waters for the Dougherty Plain in southwestern Georgia. American Geophysical Union Meeting, San Francisco, California. Poster presentation.

Free, A., L. L. Smith and S. A. Castleberry. Incorporating differences in detection probabilities for gopher tortoise burrows into surveys using line transect distance sampling. The Wildlife Society, Portland, Oregon. Poster presentation.

Free, A., L. L. Smith and S. A. Castleberry. Juvenile gopher tortoise (*Gopherus polyphemus*) burrow occupancy and tracking techniques. Gopher Tortoise Council, Bainbridge, Georgia. Oral presentation.

Giencke, L. , L. K. Kirkman, R. J. Mitchell, R. S. Taylor. Controls on ground cover species richness in the longleaf pine-wiregrass ecosystem. Ecological Society of America. Poster presentation.

Gleim, E. R, M. J. Yabsley and L. M. Conner. Effects of red imported fire ants (*Solenopsis invicta*) and habitat type on the survival of lone star ticks (*Amblyomma americanum*) and Gulf Coast ticks (*Amblyomma maculatum*). Entomological Society of America's Annual Meeting.

Gleim, E. R., J. A. Hepinstall-Cymerman, L. M. Conner and M. J. Yabsley. American canine hepatozoonosis: Identifying high risk areas through identification and mapping of *Amblyomma maculatum* habitat. Annual American Association of Veterinary Parasitologists Meeting.

Gleim, E. R. The effects of long-term prescribed burning on ticks. University of Georgia Graduate School's Three-Minute Thesis Competition.

Gleim, E. R., L. M. Conner and M. J. Yabsley. Challenges of surviving in a burned habitat: The effects of *Solenopsis invicta* (red imported fire ant) and habitat type on molt success and survival of *Amblyomma americanum* (lone star tick) and *Amblyomma maculatum* (Gulf coast tick). Annual Southeastern Society of Parasitologists Meeting.

Gleim, E. R., L. M. Conner and M. J. Yabsley. Challenges of surviving in a burned habitat: The effects of *Solenopsis invicta* (red imported fire ant) and habitat type molt success and survival of *Amblyomma americanum* (lone star tick) and *Amblyomma maculatum* (Gulf coast tick). Warnell Student Symposium at the University of Georgia, Athens, Georgia.

Golladay, S. W., A. P. Covich, J. McEntire, S. Shivers and S. Opsahl. Reservoirs as functional elements of rivers: Lake Seminole, GA as a case study. Association of Southeastern Biologists 73rd Annual Meeting, Athens, Georgia.

Howze, J. M., and L. L. Smith. Ecology of the Eastern Coachwhip in Southwest Georgia. The Wildlife Society, Portland, Oregon. Poster presentation.

Jack, S. B., R. J. Mitchell, L. K. Kirkman, N. Janson and L. Giencke. Multi-aged Longleaf Pine: Ground cover recovery and regeneration following harvest. Society of American Foresters, Spokane, Washington. Oral presentation.

Jack, S. B. History and management of Longleaf Pine forests: How we do it at Ichauway. Albany Exchange Club and Edison Lions Club, Albany, Georgia. Oral presentation.

Jack, S. B., R. J. Mitchell, L. K. Kirkman, N. A. Jansen, J. D. McGee and L. M. Giencke. Multi-aged Longleaf Pine: Ground cover recovery and regeneration following harvest. Society of American Foresters Annual Convention, Spokane, Washington. Oral presentation

Jansen, N. A. Ecological forestry in Longleaf Pine forests: Research questions and early results. Albany Audubon Society, Albany, Georgia. Oral presentation.

King, R. L., L. L. Smith and A. P. Covich. Spatial and diet analysis of freshwater turtles in Coastal Plain of Georgia. Odum School of Ecology Graduate Student Association Symposium, Athens, Georgia. Oral presentation.

Little, A. R., M. Williams, D. Ruttinger, D. Colbert, C. Perez, M. J. Chamberlain, R. J. Warren, L. M. Conner. Does a silver bullet exist to increase wild turkey populations? Georgia Department of Natural Resources, Wildlife Resources Division-Research Update.

Little, A. R., M. Cherry, M. J. Chamberlain, R. J. Warren, L. M. Conner. Expansion of wild turkey research in southwestern Georgia. Georgia Department of Natural Resources, Wildlife Resources Division.

McCormick, P. V., M. G. Waldon, R. E. Gobble, and E. S. Crawford. Water-quality constraints limit hydrologic management options for a northern Everglades peatland. INTECOL International Wetlands Conference, Orlando, Florida.

McIntyre, R. K. Native groundcover restoration. Gopher Tortoise Council, Bainbridge, Georgia. Oral presentation.

McGuire, J. G., L. L. Smith, M. J. Yabsley. Mycoplasma and upper respiratory tract disease in Gopher Tortoise populations throughout Georgia. Gopher Tortoise Council, Bainbridge, Georgia. Oral presentation.

Nelson, M, M. J. Cherry, L. M. Conner and R. J. Warren. Bed site selection by white-tailed deer fawns in a longleaf pine ecosystem. Georgia Chapter of The Wildlife Society Annual Meeting, Athens, Georgia.

Nelson, M, M. J. Cherry, L. M. Conner and R. J. Warren. Movements, habitat selection and survival of white-tailed deer fawns in a Longleaf Pine ecosystem. The Warnell Graduate Student Association Symposium, Athens, Georgia.

Nelson, M, M. J. Cherry, L. M. Conner and R. J. Warren. Movements, habitat selection and survival of white-tailed deer fawns in a longleaf pine ecosystem. Georgia Department of Natural Resources, Wildlife Resources Division Research Meeting, Forsyth, Georgia.

Nelson, M. A. M. J. Cherry, M. B. Howze, B. T. Rutledge, L. M. Conner and R. J. Warren. Coping with coyotes: A look at fawn behavior. The 2nd Annual Symposium of Quality Deer Management Association and Deer Management Research Group, Athens, Georgia.

Perez, C., L. M. Conner, R. J. Warren, and M. J. Chamberlain. Seasonal habitat use and movements of female turkeys and poults as influenced by prescribed fires in southwestern Georgia. Georgia Department of Natural Resources Wildlife Resources Division Annual Research Meeting, Forsyth, Georgia.

Rugel, K., R. J. McDowell, J. F. Dowd, S. W. Golladay, C. R. Jackson. Investigating groundwater/stream interaction between the Upper Floridan Aquifer and streams in the Lower Flint River and Chattahoochee River Basins, Georgia, USA, using stream chemistry, remote sensing and bedrock fracture orientation. Geological Society of America, Southeastern Section Meeting, Asheville, North Carolina.

Rugel, K., R. J. McDowell, J. F. Dowd, J. C. Brock, S. W. Golladay, C. R. Jackson. Using remote sensing, stream chemistry and fracture trends to predict groundwater/stream interaction in karst medium: Lower ACF River Basin, southwestern, Georgia, USA. Society for Freshwater Science 2012 Annual meeting, Louisville, Kentucky.

Ruttinger, J., D. S. Colbert, M. M. Williams, A. R. Little, C. Perez, L. M. Conner, R. J. Warren and M. J. Chamberlain. Eastern Wild Turkey roost site selection in southwestern Georgia. Georgia Chapter of the Wildlife Society Annual Meeting, Athens, Georgia.

Ruttinger, J., D. S. Colbert, M. M. Williams, A. R. Little, C. Perez, L. M. Conner, R. J. Warren and M. J. Chamberlain. Eastern Wild Turkey gobbler habitat roost site selection in Southwestern Georgia. Georgia Department of Natural Resources, Wildlife Resources Division Research Update.

Scott, J. L. M. Conner, S. B. Castleberry, R. J. Warren. Empirical forecast models minimize conflicts between potentially competing habitat management goals for game and endangered species. Annual Meeting of The Wildlife Society, Portland, Oregon.

Seagraves, C. D., Cherry, M. J., N. R. Deuel, L. M. Conner, R. J. Warren. Use of howl surveys to estimate abundance and spatial distribution of coyotes in Southwestern Georgia. The 19th Annual Meeting of The Wildlife Society. Portland, Oregon.

Seagraves, C. D., Cherry, M. J., L. M. Conner and R. J. Warren. Measuring coyote abundance at a landscape scale. Annual Meeting of Georgia Chapter of The Wildlife Society, Athens, Georgia.

Shivers, S. D., S. P. Opsahl, A. P. Covich and S. W. Golladay. The diel and seasonal effects of submerged aquatic vegetation on nutrient dynamics, nutrient storage, and organic carbon bioavailability in a southeastern reservoir. Association of Southeastern Biologists 73rd Annual Meeting, Athens, Georgia.

Simmons, M., L. M. Conner and G. Morris. RCaptuRe CReatoR: R Code for Creation of Capture History Files. Annual meeting of the Southeastern Association of Fish and Wildlife Agencies, Hot Springs, Arizona.

Smith, N. D. and S. W. Golladay. Curculionidae species within isolated wetlands of southwestern Georgia. Entomological Society of America Annual Meeting, Knoxville, Tennessee.

Smith, L. L. Effects of predator exclusion on nest and hatchling survival in the gopher tortoise. The Wildlife Society, Portland, Oregon. Oral presentation

Smith, L. L. The Role of "Isolated" Wetlands in Sustaining Biodiversity in Southeastern Longleaf Pine Forests. Vernal Pool, mini-Symposium. Virginia Commonwealth University, Richmond, Virginia. Invited speaker.

Smith, L. L. Home range size and habitat selection in the Florida Pine snake. Gopher Tortoise Council, Bainbridge, Georgia. Oral presentation

Stuber, O. S., L. K. Kirkman and J. Hepinstall-Cymerman. Plant communities of isolated wetlands and their relationship to surrounding land use. International Association for Ecology (INTECOL)/Society of Wetland Scientists Meeting, Orlando, Florida. Poster presentation.

Stuber, O. S., G. I. Martin, L. K. Kirkman and J. Hepinstall-Cymerman. Examining the current status of isolated wetlands in southwestern Georgia and the implications of 60 years of land use change. Ecological Society of America Annual Meeting, Portland, Oregon. Poster presentation.

Teasley, E. R., A. P. Covich, S. W. Golladay, D. G. Mead and M. S. Blackmore. Incidence of West Nile virus in mosquitoes and turtles in reference and agricultural wetlands in southwestern Georgia. Annual Meeting Association of Southeastern Biologists, Athens, Georgia.

Turner, K. L., M. J. Cherry, M. B. Howze, R. J. Warren and L. M. Conner. Coyote food habits relative to white-tailed deer abundance. The 19th Annual Meeting of The Wildlife Society, Portland, Oregon.

Turner, K. L., M. J. Cherry, M. B. Howze, L. M. Conner and R. J. Warren. Exploring shifts in coyote diet relative to white-tailed deer abundance. Annual Meeting of the Georgia Chapter of The Wildlife Society, Athens, Georgia.

Waters, M. N., S. W. Golladay and C. H. Patrick. The effects of land use and allochthonous inputs on primary producer community structure in a large, shallow reservoir: evidence from lake sediments. Association of Southeastern Biologists 73rd Annual Meeting, Athens, Georgia.

Waters, M. N., S. W. Golladay, M. Piehler and J. M. Smoak. Paleolimnological evidence of whole lake processes used to alter management strategies for a large lake, wetland and reservoir in the southeastern USA. International Paleolimnological Association Meeting, Glasgow, United Kingdom.

Williams, C. M. Perez, J. A. Ruttinger, D. S. Colbert, A. R. Little, M. J. Chamberlain, L. M. Conner and R. J. Warren. Effects of growing-season prescribed fire on Eastern Wild Turkey nesting ecology and poult survival in southwestern Georgia. Annual Conference of The Wildlife Society, Portland, Oregon.

Williams, C. M. Perez, J. A. Ruttinger, D. S. Colbert, A. R. Little, M. J. Chamberlain, L. M Conner, R. J. Warren. Effects of growing-season prescribed fire on eastern wild turkey nest survival, nest success, and poult survival in southwestern Georgia. Annual Conference of the Southeastern Association of Fish and Wildlife Agencies. Hot Springs, Arkansas.

Williams, C. M. Perez, J. A. Ruttinger, D. S. Colbert, A. R. Little, M. J. Chamberlain, L. M Conner, R. J. Warren. Grappling with growing-season fire: Implications for wild turkeys. Annual Warnell Graduate Student Symposium, Athens, Georgia.

Williams, C. M. Perez, J. A. Ruttinger, D. S. Colbert, A. R. Little, M. J. Chamberlain, L. M Conner, R. J. Warren. Growing-season fire effects on eastern wild turkey nest success and poult survival in southwestern Georgia. Georgia Wildlife Resources Division Wildlife Research Meeting, Forsyth, Georgia.

Williams, C. M. Perez, J. A. Ruttinger, D.S. Colbert, A. R. Little, M. J. Chamberlain, L. M Conner, R. J. Warren. Effects of growing-season prescribed fire on wild turkey nesting ecology and poult survival in southwestern Georgia. Annual Meeting of the Association of Southeastern Biologists, Athens, Georgia.

Williams, C. M. Perez, J. A. Ruttinger, D. S. Colbert, A. R. Little, M. J. Chamberlain, L. M Conner, R. J. Warren. Overview of the eastern wild turkey project in southwestern Georgia. Board Meeting of the Georgia Chapter of the National Wild Turkey Federation, Forsyth, Georgia.

Williams, C. M. Perez, J. A. Ruttinger, D. S. Colbert, A. R. Little, M. J. Chamberlain, L. M Conner and R. J. Warren. Effects of growing-season prescribed fire on wild turkey nesting ecology and poult survival in southwestern Georgia. Annual Warnell Graduate Student Symposium, Athens, Georgia.

Professional Seminars, Guest Lectures and Special Presentations

Boring, L. R. The best of times or the worst of times? University of Georgia Graduate Commencement, Athens, Georgia. Invited graduation speaker, May 2012.

Boring, L. R. Multidisciplinary approaches to ecosystem research and management at the Joseph W. Jones Ecological Research Center. Annual Meeting of the Organization of Biological Field Stations (OBFS), Archbold Biological Field Station, Lake Placid, Florida. Invited plenary presentation.

Conner, L. M. Predation in the fire forest. Invited seminar. Union University. Jackson, Tennessee. McCormick, P. V. Steering Committee Member – Georgia Lakes Society, North American Lake Management Society Southeastern Regional Meeting, Columbus, Georgia.

Conner, L. M. Predator management at Ichauway. Osceola Plantation, Thomasville, Georgia. Oral presentation.

Golladay, S. W. and D. W. Hicks. Overview of current and historical streamflow and water resources trends in the lower Flint River Basin: Update on environmental flows research at Ichauway. Flint River Keeper Board of Directors, Albany, Georgia. Oral presentation.

Jack, S. B. Forest Management for Conservation Goals – Managing for More than Trees. Gopher Tortoise Council Annual Meeting, Bainbridge, Georgia. Invited oral presentation.

Jack, S. B. Managing the Longleaf Pine Forest at Ichauway – Integrating Forestry, Wildlife and Conservation Objectives. Master Timber Harvester workshop in Cordele, Georgia. Invited oral presentation.

Jack, S. B. The Chattahoochee Fall Line Conservation Partnership – Longleaf Pine, Partnerships, and Regional Conservation Efforts. Joint Georgia and Alabama Chapters of TNC Winter Retreat, Columbus, Georgia. Invited keynote speaker.

Kirkman, L. K. Conservation challenges of geographically isolated wetlands in the Coastal Plain. Odum School of Ecology, University of Georgia, Athens, Georgia. Invited oral presentation.

Kirkman, L. K. Taught Master Gardeners Tree identification workshop, University of Georgia Extension Service, Albany, GA.

McIntyre, R. K. Plenary speaker/panelist for State of Southern Forests session, National Fish and Wildlife Foundation/Southern Company 2012 Stewardship Partners Meeting. Oral presentation.

Smith, L. L. Habitat partitioning at multiple scales in large upland snakes- Department of Wildlife Ecology and Conservation, University of Florida, Gainesville, Florida. Invited seminar.

Taylor, R. S. Joseph W. Jones Ecological Research Center and its programs. Albany Camellia and Garden Club, Albany, Georgia. Oral presentation.

Externally Funded Projects

Conner, L. M. Breeding bird response to longleaf pine restoration. National Wild Turkey Federation. February 22, 2011 – December 31, 2016. \$35,700. Received in 2011, \$11,700. Did not receive additional funds in 2012.

Conner, L. M. Prescribed fire and ecology of turkeys, coyotes and deer. Georgia Department of Natural Resources, University of Georgia. January 01, 2012 - June 30, 2013. \$91,466. Received in 2012, \$66,268.

Golladay, S. W. Instream assessment of stream habitat and mussel populations adjacent to AAWCM sites in the lower Flint River Basin. \$59,687. Received in 2012, 29,519.

Golladay, S. W. and R. J. Mitchell. A workshop on conservation and natural resource management in an uncertain future: Using the southeastern U.S. as a model for managing change. National Science Foundation. August 01, 2012 - July 31, 2014. \$49,000. Did not receive additional funds in 2012.

Golladay, S. W. and R. J. Mitchell. A workshop on conservation and natural resource management in an uncertain future: Using the southeastern U.S. as a model for managing change. USDA Forest Service. July 31, 2012 - May 31, 2014. \$15,000. Did not receive additional funds in 2012.

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. Received in 2010, \$19,086. Received in 2011, \$18,675. Received in 2012, \$15,150.

Kirkman, L. K. Evaluation of longleaf pine undercover ecotype seed sources. R. Howard Dobbs Jr. Foundation. November 02, 2012 - June 30, 2014. \$65,000. Did not receive additional funds in 2012.

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, 2013. \$196,500. Did not receive additional funds in 2012.

Kirkman, L. K. and M. J. Kaeser. Population survey and analysis for federally listed or petitioned plants and the threatened gulf sturgeon. U.S. Fish and Wildlife Service. February 01, 2012 - January 31, 2015. \$50,000. Received in 2012, 25,865.

Kirkman, L. K., R. K. McIntyre and L. M. Conner. Enhancing longleaf ecosystem understory. National Fish and Wildlife Foundation. October 31, 2007 – June 30, 2012. \$82,000. Received in 2008, \$923. Received in 2011, \$19,921. Received in 2012, \$4,856.

McIntyre, R. K. Developing metrics for longleaf pine restoration. National Fish and Wildlife Foundation. May 01, 2012 - December 31, 2012. \$26,158. Received in 2012, \$26,158.

Mitchell, R. J., D. C. Kesler and J. R. Walters. Range-wide meta-analysis of red-cockaded woodpecker foraging habitat suitability. Department of the Army, University of Missouri. October 01, 2012 - May 31, 2013. \$5,681. Did not receive additional funds in 2012.

Mitchell, R. J., E. A. Hobbie and 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 – November 30, 2011. \$375,000. Received in 2011, \$23,898. Did not receive additional funds in 2012.

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 2011, \$344,888. Received in 2012, \$263,061.

Mitchell, R.J., J. J. O'Brien, A. T. Hudak and L. A. Dyer. Patterns and Processes: monitoring and understanding plant diversity in frequently burned longleaf pine landscapes. Strategic Environmental Research and Development Program, USDA Forest Service. July 09, 2012 - June 30, 2018. \$601,956. Received in 2012, 63,895.

Smith, L. L. Linkages between upland habitat condition, burrowing vertebrates, and snake richness on protected areas in Georgia. Georgia Department of Natural Resources. July 15, 2011 – August 31, 2013. \$5,810. Did not receive any funds in 2011. Received in 2012, \$781.

Smith, L. L. Gopher tortoise surveys and population evaluation. Georgia Department of Natural Resources. October 01, 2012 - May 31, 2013. \$66,637. Received in 2012, \$13,775.

Smith, L. L. Gopher tortoise surveys and population evaluation. U.S. Fish and Wildlife Service. August 01, 2012 - September 30, 2013. \$40,000. Did not receive additional funds in 2012.

Education and Outreach Program On-site Activities

University Class Visits

Mercer University. A one-day field tour focusing on the natural history of the longleaf pine ecosystem. (21)

University of Georgia. A week-long Maymester short course in fire ecology. (16)

University of Georgia. A two-day field tour focusing on herpetology. (17)

University of Florida. A two-day field experience focusing on longleaf pine management and restoration. (27)

Emory University. A two-day field experience focusing on Coastal Plain ecosystems. (19)

University of the South. A two-day field tour including an overview of the longleaf pine ecosystem, longleaf pine management and restoration, and endangered species. (13)

Abraham Baldwin Agricultural College. A one-day field tour focusing on prescribed fire. (25)

Berry College. A three-day field experience including an overview of the longleaf pine ecosystem, rare and endangered species, wetland and plant diversity, fire management at Ichauway and various restoration and research projects. (13)

Universities of Georgia and Florida. A week-long Maymester short course on coastal plain ecosystem ecology and conservation. (11)

Universities of Georgia and Florida. A week-long Maymester short course on longleaf pine ecology, management and restoration. (12)

University of Georgia. A one-day field tour focusing on hydrology and water resources. (20)

University of Georgia. A week-long Maymester short course in wildlife ecology. (13)

University of Georgia. A two-day field experience focusing on mammalogy. (20)

Arkansas Tech University. A two-day field tour focusing on forest ecology. (10)

Natural Resource Conservation

UGA Extension. A one-day visit by Master Gardeners to learn about tree identification. (13)

National Prescribed Fire Training Center. A one-day field tour focusing on prescribed fire use in the southeastern U.S. (25)

National Fish and Wildlife Foundation. A two-day visit by Longleaf Stewardship Fund program officers focusing on Center programs and discussions on longleaf conservation issues. (2)

Pine Knoll Workshop. One-day field tour for owner and managers of Pine Knoll Plantation focusing on prescribed fire. (3)

The Nature Conservancy of Georgia. A one-day visit of field tours and presentations focusing on water resources and longleaf pine ecology and restoration. (20)

UGA Extension. A one-day field tour for University of Georgia southern region agricultural extension agents focusing on restoration of longleaf pine ecosystems in former agricultural fields. (35)

Georgia Department of Natural Resources/Environmental Protection Division. A two-day visit by DNR and EPD leadership to discuss water resources of the Lower Flint and proposed aquifer storage and recovery. (9)

Gopher Tortoise Survey and Monitoring Workshop. A three-day workshop for Gopher Tortoise Candidate Conservation Agreement stakeholders. (28)

St. Marks National Wildlife Refuge. A one-day field tour focusing on the Center's longleaf management and restoration. (2)

Adopt-A-Stream Training Workshop. A one-day training on chemical water quality analysis. (5)

ACF Basin Ecohydrology Workshop. A three-day workshop to promote communication among various organizations in order to address water management issues. (13)

Adopt-A-Stream Board. A three-day meeting and field tour. (12)

National Fish and Wildlife Foundation. A three-day workshop focusing on NFWF longleaf restoration projects. (23)

Institute for Georgia Environmental Leadership (IGEL). A one-day field tour focusing on prescribed fire and water resources issues. (33)

Freshwater Mussel Workshop. A four-day training workshop focusing on field survey techniques and identification of freshwater mussels. (16)

Florida-Georgia Sandhills Working Group. A one-day meeting and field tour focusing on restoration of sandhill longleaf pine ecosystems and associated wildlife. (33)

Federal Coordinating Committee for Longleaf Pine. A three-day meeting focused on coordinating Federal efforts with the broader America's Longleaf Restoration Initiative. (8)

Georgia Department of Natural Resources. A two-day meeting for DNR leadership focusing on the Center's programs. (6)

Indigo Snake Meeting. A one-day meeting focusing on Eastern indigo Snake reintroduction efforts. (21)

Gopher Tortoise Council Conference. A post-conference field trip focusing on gopher tortoises and the longleaf pine ecosystem. (16)

David Williams. A one-day field tour to review research and development of ground-cover restoration techniques and plant material supply issues. (1)

USFWS Ecological Forestry Workshop. A three-day workshop for U.S. Fish and Wildlife Service employees from across the Southeast. (19)

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

Public Relations

Open House. A one-day open house of Jones Center facilities. (531)

British Sky Broadcasting. A four-day visit by a television crew filming wetlands research. (3)

Education and Outreach Program Off-site Activities-2012

Regional Partnerships and Advisement

Longleaf Partnership Council

The Center was a founding member of this regional partnership of Federal, State, NGO and private groups working to implement the 2009 Rangewide Conservation Plan for Longleaf Pine, which seeks to double the acreage of longleaf from 4 to 8 million acres by 2025. Center staff (RKM) have worked with this effort since it began in 2007, and Kevin McIntyre now serves in leadership role.

Rangewide Conservation Plan for Longleaf Pine: Implementation Plan Writing Team

Kevin McIntyre served on seven-member writing team that drafted "America's Longleaf restoration initiative: Strategic priorities and actions 2013 – 2015", a three-year implementation strategy for the Rangewide Conservation Plan for Longleaf Pine.

Lowcountry Forest Conservation Partnership

Kevin McIntyre and Steve Jack were funded through a Nature Conservancy grant to provide advice and develop longleaf restoration plans for approximately 2000 acres around the Francis Marion National Forest. This effort has evolved into a regional longleaf partnership that serves as a local implementation team for the Rangewide Conservation Plan for Longleaf Pine.

Apalachicola Regional Stewardship Alliance (ARSA)

Kevin McIntyre serves on the steering committee for ARSA, a regional partnership for longleaf restoration in a million-acre focus area centered around the Apalachicola National Forest and St. Marks National Wildlife Refuge, extending into nearby Southwest Georgia. This group serves as a local implementation team for the Rangewide Conservation Plan for Longleaf Pine.

Chattahoochee Fall Line Conservation Partnership (CFLCP)

Steve Jack serves as chair of the steering committee chair for the CFLCP, a regional partnership for longleaf restoration around the Ft. Benning/Fall Line Sandhills area of western Georgia. This group serves as a local implementation team for the Rangewide Conservation Plan for Longleaf Pine.

East Gulf Coastal Plain Joint Venture Desired Forest Conditions

Kevin McIntyre served on a working group to develop desired forest conditions for southern pine systems in the East Gulf Coastal Plain (Southeast Louisiana to Southwest Georgia).

U.S. Forest Service Southern Research Station Technical Advisory Committee

Kevin McIntyre and Steve Jack participated in external review group for longleaf-related research programs of the USFS Southern Research Station.

National Fish and Wildlife Foundation (NFWF) Longleaf Stewardship Fund Project

Kevin McIntyre led, and Steve Jack, Lora Smith and Kay Kirkman participated in a collaborative effort with the NFWF under a grant contract to develop evaluative metrics and recommendations for the Longleaf Stewardship Fund, a \$3 million annual grant program designed to accelerate implementation of the Rangewide Conservation Plan for Longleaf Pine.

Williams Foundation Family Field Day

Kevin McIntyre and Mike Conner gave planning advice and presentations for field day for Williams Family Properties (16,000 ac). Thomasville, Georgia.

Coalition of Prescribed Fire Councils

Mark Melvin serves as chair of this group, whose overarching goal is to create one voice to assist fire practitioners, policymakers, regulators and citizens with issues surrounding prescribed fire use.

Georgia Prescribed Fire Council (GPFC)

The GPFC is a diverse group of stakeholders collaborating to protect the right, to encourage the use of and to promote public understanding of prescribed fire in Georgia. Mark Melvin serves as permanent Vice-Chair for this group.

Southern Fire Exchange (SFE)

The SFE is a regional program for fire science delivery in the Southeast, funded by the Joint Fire Science Program. The SFE consolidates southern fire information and provides new ways for the fire community to interact and learn from one another. Mark Melvin serves as Advisory Board Chair.

eXtension Prescribed Fire Community of Practice

Led by Oklahoma State University, the eXtension Community is a web-based interface that allows practitioners, or the public, to ask questions about prescribed fire. Mark Melvin serves as a team leader.

National Wildfire Coordination Group (NWCG)

The Fire Use Subcommittee reviews and updates NWCG prescribed fire training standards and policy. Mark Melvin serves on Fire Use Subcommittee.

NWCG Smoke Committee

The revision of NWCG's Smoke Management Guide encompasses broad training and standards, as well as policy, related to managing smoke from wildland fires. Mark Melvin serves as a member of the Smoke Management Guide Review Team.

Wildland Fire Cohesive Strategy

This group provides technical development and review of the Southeast Regional Strategy Phase III report process and final document. Mark Melvin serves as Southeast Regional Technical Group Member.

Southeast Regional Partnership for Planning and Sustainability (SERPPAS)

The Southeast Regional Partnership for Planning and Sustainability (SERPPAS) is a six-state partnership comprised of state and federal agencies that promotes collaboration in making resource use decisions supporting conservation of natural resources, working lands, and national defense. Mark Melvin served on the Air Quality Subcommittee and Prescribed Fire Work Group, working to develop creative solutions that address smoke management for prescribed fire and increase burning while complying with state air quality regulations. The Prescribed Fire Work Group also works collaboratively with the Longleaf Partnership Council to implement the Rangeland Conservation Plan for Longleaf Pine by developing strategies, garner support and implement programs that will double 'region-wide longleaf' burning by year 2025.

National Association of State Foresters Fire Committee and biennial meeting of State Fire Chiefs, Managers, and Supervisors

Mark Melvin gave an oral presentation and collaborated to develop and conduct national prescribed fire use survey.

Florida/Georgia Fire Summit II

Mark Melvin presented and participated in a multi-state meeting to preserve and build Southeast's capacity for prescribed fire management.

Coalition of Prescribed Fire Councils

Mark Melvin serves as Chair and presided over annual Governing Board meeting.

Georgia Adopt A Stream

Steve Golladay served on the board of directors for Georgia Adopt A Stream and led a Stream Invertebrate Taxonomy Workshop at the annual conference.

Rivers Alive Cleanup

Lora Smith, Jennifer Howze and Kay Kirkman organized and led river cleanup days on the Flint River.

4H₂O Water Education Day

Steve Golladay and Nathalie Smith participated in a water education event hosted by Stripling Irrigation Park.

Apalachicola-Chattahoochee-Flint (ACF) Stakeholders

Woody Hicks serves as a technical advisor to the board.

Special Water Program with Public Outreach

Jones Center and The Nature Conservancy sponsored our 2012 Distinguished Lecturer, Brian Richter, to give a public presentation, "The Water in Our Lives", to 80 guests at the Flint RiverQuarium in Albany, Georgia. Brian is Leader of the Global Freshwater Initiative of The Nature Coservancy.

Graduate Students

Graduated 2012

Larval mosquito assemblages in agricultural wetlands of southwestern Georgia: investigating the influence of surrounding land use, nutrient enrichment and basal food resources.
(University of Georgia, M.S., S. W. Golladay) Gina Botello

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

The interaction of soil moisture availability and prescribed fire on the exchange of carbon dioxide, energy and water in longleaf pine forests.
(University of Alabama, M.S., R. J. Mitchell) Andy Whelan

Effects of growing-season prescribed fire on eastern wild turkey nesting ecology and poult survival in southwestern Georgia.
(University of Georgia, M.S., L. M. Conner) Meg Williams

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

Current 2012 Projects

Pollinator composition in the Longleaf Pine ecosystem.
(University of Georgia, M.S., L. K. Kirkman) Sabrie Breland

Coyote foraging behavior, density dependent spatial distribution, and impact on white-tailed deer recruitment in southwestern Georgia.
(University of Georgia, Ph.D., L. M. Conner) Michael Cherry

Seasonal gobbling chronology in hunted and non-hunted eastern wild turkey populations in southwestern Georgia.
(University of Georgia, M.S., L. M. Conner) Derek Colbert

Modeling hydrologic connectivity in isolated wetlands. (University of Georgia, Ph.D., L. K. Kirkman)	James Deemy
Population and site evaluations on gopher tortoises (<i>Gopherus polyphemus</i>) on public and private lands in Georgia. (University of Georgia, M.S., L. L. Smith)	Ashley Free
Tick-borne diseases and interactions with deer herds and prescribed fire. (University of Georgia, Ph.D., L. M. Conner)	Elizabeth Gleim
Ecology of upper respiratory disease in gopher tortoises and box turtles in Southeast Georgia. (University of Georgia, Ph.D., L. L. Smith)	Jess McGuire
Spatial patterns of wetland use of freshwater turtles in coastal plain of Georgia. (University of Georgia, M.S., L. L. Smith)	Rachel King
New Student. Wild Turkey Ecology. (University of Georgia, Ph.D., L. M. Conner)	Andy Little
Study of direct and indirect effects of imported fire ants on native vertebrate populations. (University of Florida, Ph.D., L. L. Smith and L. M. Conner)	Andrea Long
Movements, habitat selection and survival of White-Tailed Deer fawns in a Longleaf Pine ecosystem. (University of Georgia, M.S., L. M. Conner)	Melinda Nelson
Movements and habitat use by wild turkey females and poults in southwestern Georgia as influenced by season and prescribed fires. (University of Georgia, Ph.D., L. M. Conner)	Christina Perez
Nutrient transport pathways in SW Georgia landscapes. (Georgia State University, M.S., P. V. McCormick)	Parisa Rinaldi
Influence of human water use on streamflow characteristics in the lower Flint River, Georgia. (University of Georgia, Ph.D., S. W. Golladay)	Kathleen Rugel

Effects of prescribed fire, hunting and supplemental feeding on habitat selection and home range of male eastern wild turkeys in southwestern Georgia. (University of Georgia, M.S., L. M. Conner)	Drew Ruttinger
Stress induced behavior and impacts on predation risk: Microgeographic mechanisms for maintenance of biodiversity. (Auburn University, Ph.D., L. M. Conner)	Ron Schiebel
Patterns of snake diversity relative to gopher tortoise population size on protected areas in Georgia. (University of Georgia, M.S., L. L. Smith)	Beth Schlimm
The role of submerged aquatic vegetation (<i>Hydrilla verticillata</i>) on nutrient dynamics and freshwater aquatic food webs within Lake Seminole. (University of Georgia, Ph.D., S. W. Golladay)	Stephen Shivers
Geomorphic and habitat controls on the insect community in a coastal plain stream. (University of Georgia, M.S., P. V. McCormick)	Chelsea Smith
Assessing the effects of land use on the condition of geographically isolated wetlands in the Dougherty Plain Georgia: a multi scale approach. (University of Georgia, M.S., L. K. Kirkman)	Stribling Stuber
Spatiotemporal difference in mosquito assemblages and arbovirus prevalence of natural and agricultural wetlands in Southwestern Georgia. (University of Georgia, M.S., S. W. Golladay)	Erica Teasley
A telemetric study on the ecology of the southeastern pocket gopher (<i>Geomys pinetis</i>) in southwest Georgia. (University of Georgia, M.S., L. M. Conner)	Ashley Warren

Conservation Interns/Apprentices

Bradly Bennett. 2011-2012. M.S., Warnell School of Forestry and Natural Resources, University of Georgia.

Allen Simms. 2011-2012. B.S., Warnell School of Forestry and Natural Resources, University of Georgia.

Charles "Chaz" Oliver. 2012-present. B.S., Wildlife and Fisheries, Warnell School of Forestry and Natural Resources, University Georgia.

Scientific Advisory Committee

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

Dr. Gene E. Likens – Founding Chair (1988-2012)
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

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

Mr. Brian Richter (Incoming 2013)
Leader, Global Freshwater Initiative
The Nature Conservancy
Charlottesville, Virginia

Staff

Scientists

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

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

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

D. Woody Hicks - Scientist, Groundwater Hydrology

Steven B. Jack - Conservation Ecologist, Applied Forest Scientist
Affiliate Assistant Professor - Auburn University
Courtesy Associate Professor - University of Florida

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

Paul V. McCormick - Scientist, Aquatic Ecology
Adjunct Professor - University of Georgia
Adjunct Professor - Georgia State University

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 Tech
Adjunct Associate Professor - Florida State University

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

Andres Baron - Lead Technician II, Forest Ecology II

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

Brian A. Clayton - Monitoring Technician II, Groundwater Hydrology

Lisa Cowart - Lead Technician I, Aquatic Ecology

Lisa Giencke - Lead Technician I, Plant Ecology

Jennifer Linehan Howze–Lead Technician II, Herpetology

Noah Jansen – Lead Technician I, Forest Ecology

Gail Morris - Lead Technician I, Wildlife Ecology

Scott N. Pokswinski - Research Technician III, SERDP Grant

Nathalie D. Smith – Lead Technician I, Aquatic Ecology

R. Scott Taylor – Lead Technician II, Forest Ecology

Research Support

Jean C. Brock - Information Technology Manager

Glenn D. Bailey, Jr. - Network Manager

*Noore Ghunaym - Network Manager

Micheal G. Simmons – Database / Data Analyst

Chandler “Lain” Alexander - IT and Network Support Technician

Stephanie E. Allums – Central Lab Manager

Elizabeth P. Cox - Science Librarian

Education

R. Kevin McIntyre - Education Coordinator

Jessica D. McCorvey - Education Program Assistant

Conservation

James B. Atkinson, Jr. - Natural Resource Manager

T. Scott Smith - Assistant Natural Resource Manager

Steven B. Jack - Conservation Ecologist

Brandon Rutledge - Conservation Biologist

Bobby E. Bass - Conservation Technician II

Mark A. Melvin - Conservation Management / Education Technician

Joel L. Rackley - Agricultural Specialist

David C. Varnadoe - Conservation Horticulturist

Charles "Chaz" Oliver - Conservation Intern

*Thomas (Bradley) Bennett - Conservation Intern

*Allen Simms - Conservation Intern

Maintenance and Operations

Dennis J. Williams - Maintenance Manager

Administration

Lindsay R. Boring - Director

Becky H. Gay – Business Administrator

Denise R. McWhorter - Assistant to the Director

Cindy C. Craft – Administrative and Human Resource Assistant

Robert S. Lynch - Accountant

Rosanne B. Bohannon - Procurement Specialist / Accounting Assistant

Larry E. Ethridge - Security Supervisor

Jessica A. Kelly - Receptionist

*has left the Center

Guest Seminars

Baron, Andres. Lead Technician, Forest Ecology II, Joseph W. Jones Ecological Research Center. Thermokarst slump effects on ecosystem carbon and nitrogen dynamics in upland Arctic Tundra.

Beasley, Dr. Jim. Assistant Research Scientist, Savannah River Ecology Lab, University of Georgia, Aiken, South Carolina. Ecological adaptations of mesopredators inhabiting agricultural ecosystems.

Botello, Gina. M.S. Student, Odum School of Ecology, University of Georgia, Athens, Georgia. Larval mosquito assemblages in agricultural wetlands of southwestern Georgia: Investigating the influence of surrounding land use, nutrient enrichment and basal food resources.

Brooks, Dr. John R. Professor of Forest Biometrics, West Virginia University, Morgantown, West Virginia. What we think we know about planted Longleaf Pine growth and yield in Southwest Georgia.

Gandhi, Dr. Kamal J. K. Assistant Professor of Forest Entomology, Warnell School of Forestry and Natural Resources, University of Georgia, Athens, Georgia. Chemical ecology of bark beetles in southern pine stands.

Grand, Dr. Barry. Professor of Wildlife Science, Auburn University, Unit Leader, Alabama Cooperative Fish and Wildlife Research Unit, Auburn, Alabama. Making conservation a science and management enterprise: Applications of structured decision making and adaptive management.

Lane, Dr. Charles. Office of Research and Development, Environmental Protection Agency, Cincinnati, Ohio. Isolated wetlands: Cryptic systems, uncertain linkages.

Loewenstein, Dr. Edward F. Associate Dean of Academic Affairs, School of Forestry and Wildlife Sciences, Auburn University, Auburn, Alabama. Proportional-B: Restoring balance between art and science in selection silviculture.

McKee, Anna. Ph.D. Candidate, Warnell School of Forestry and Natural Resources, University of Georgia. "Correlations between and habitat predictors of species of genetic diversity in pond-breeding amphibian communities.

Monadjem, Dr. Ara. Professor, Department of Biology, University of Swaziland. Bats as biological pest control agents in African agro-ecosystems.

Pascarella, Dr. John. Associate Dean for Academic and Research Programs, Kansas State University, Manhattan, Kansas. Plant-pollinator conservation in the southeastern USA.

Rasmussen, Dr. Todd. Professor, Hydrology and Water Resources, Warnell School of Forestry and Natural Resources, University of Georgia, Athens, Georgia. Hydrologic connectivity of isolated wetlands.

*Richter, Brian. Co-leader, Global Freshwater Initiative, The Nature Conservancy. In search of sustainability: Managing water and ecosystems in a rapidly globalizing world.

Smith, Dr. Lora. Associate Scientist, Wildlife Ecology, Joseph W. Jones Ecological Research Center. The basics of snake safety for field researchers at Ichauway.

Waters, Dr. Matthew. Assistant Professor, Paleolimnology and Aquatic Ecology, Valdosta State University, Valdosta, Georgia. The importance of in-lake processes and allochthonous inputs in the management of large and shallow lakes: Evidence from the sediment record.

Whelan, Andy. M.S. Student, Department of Biological Sciences, University of Alabama, Tuscaloosa, Alabama. Carbon dynamics along an edaphic moisture gradient in frequently burned Longleaf Pine savannas.

Williams, Mary "Meg". M.S. Student, Warnell School of Forestry and Natural Resources, University of Georgia. Effects of growing season prescribed fire on eastern wild turkey nesting ecology and poult survival in southwestern Georgia.

Wisely, Dr. Samantha. Associate Director, Ordway-Swisher Biological Station, Associate Professor, Wildlife Ecology and Conservation, Co-Director, Conservation Genetics and Molecular Ecology Lab, University of Florida. Deforestation and cattle ranching drive the emergence of zoonotic pathogens in Paraguay.

*Distinguished Lecturer