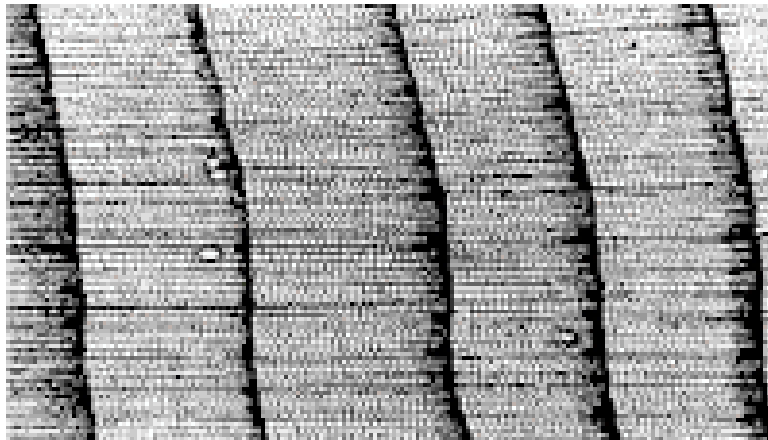


Laboratory of Tree-Ring Research  
Student and Visitor  
Handbook



THE UNIVERSITY OF ARIZONA.

Compiled by the Grad Students

8/16/04

## Student/Visitor Handbook Table of Contents

TODO immediately list.....	3
If I have questions, who do I ask?.....	3
Maps.....	4
Front Office.....	5
Computer/Copier/Printer Room.....	6
Personnel Directory.....	7
Faculty and staff bio's.....	8-9
Grad Student Group.....	10
Brown Bag Lecture Series (wed @ noon in classroom).....	11
Really important things: eats, drinks, and tunes.....	12
Tree Ring Lab Resources.....	13
FAQ's.....	14
Favorite local hike.....	14
Course List.....	15
Course reviews.....	16
Suggested readings.....	17
UofA resources: Main Library, Science Library, herbarium (obscure journals)	

### Appendices

- A. Computers and networking document from Martin  
(<http://www.ltrr.arizona.edu/netdoc>)
- B. Supplemental info from the Front office
- C. List of publications by LTRR researchers

**A. First on my TODO list:**

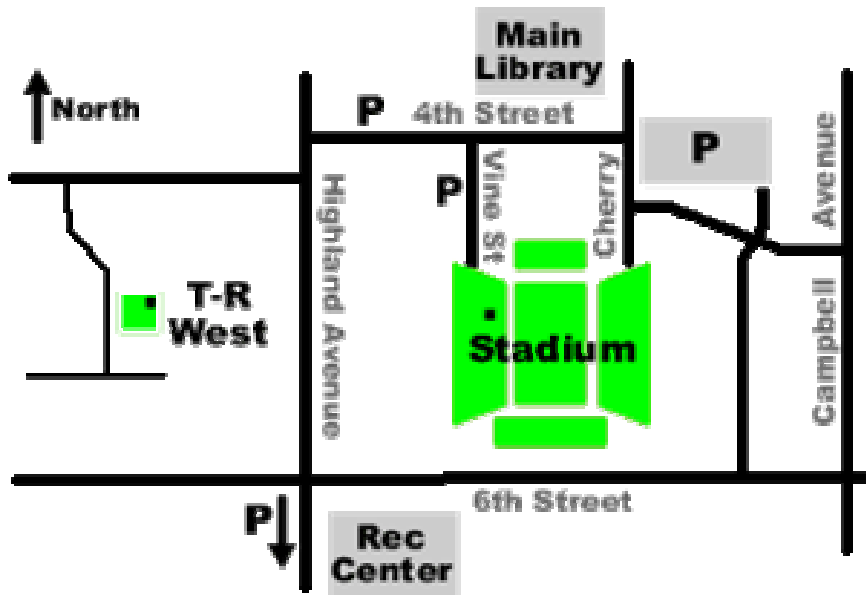
1. Check with front office to complete paperwork
2. Sign up for the tree-ring lab listserv  
(<https://schulman.ltrr.arizona.edu/mailman/listinfo/trl-l>)
3. Sign up for the tree-ring lab student listserv  
(<https://schulman.ltrr.arizona.edu/mailman/listinfo/grad-l>)
4. Contact Rex to schedule my tour of the tree-ring lab (626-3617)  
[radams@ltrr.arizona.edu](mailto:radams@ltrr.arizona.edu)
5. Scan the webpage: <http://www.ltrr.arizona.edu/index.html>

**If I have questions, who do I ask?**

1. General – **Rex** – he'll point you in the right direction
2. Administrative – **Front Office** – Ana, Phyllis, etc
3. Workshop & Measuring Room – **Rex or Chris Baisan**
4. Computer – **Martin Munro**
5. Student issues– student representative (**Erica Bigio**) or any grad student

## Maps

1. Tree-Ring Lab map (<http://www.ltrr.arizona.edu/map.html>)
2. UofA map (<http://map.arizona.edu/index.shtml>)
3. Tucson bike map (<http://www.pagnet.org/bikemap>)
4. link other maps: <http://www.cityoftucson.org/maps.html>



## Front Office

*(They run the show around here)*

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<b>Phyllis Norton</b> , Administrative Associate	<a href="mailto:pgress@ltrr.arizona.edu">pgress@ltrr.arizona.edu</a>	621-2191	105B
<b>Ana Martinez</b> , Administrative Assistant	<a href="mailto:martinez@ltrr.arizona.edu">martinez@ltrr.arizona.edu</a>	621-6469	105B

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Front Office (see Appendix # for more details)

- a. Administrative support (very important)
- b. Mailboxes
- c. Fax machine
- d. Office supplies
- e. Director's office
- f. Travel
- g. Paychecks
- h. Policy (forms) – shop, field safety form, etc

## **Printer/Copier/Computer Room (room 104B)**

What's there: 1) **Shared computers**, 2) **Scanner**, 3) **Printers**, 4) **Photocopier**

You'll have a love hate relationship with these machines. Be prepared to hear some cussing and swearing if the copier is acting up.

- Problems with the copier and printers (out of ink, toner, etc) need to be reported to the **front office** immediately-they won't fix themselves
- Keep the area neat – anything laying around for more than 24 hours will be tossed
- Fill up the printer trays with paper
- Problems with the computers need to be reported to **Martin Munro** (he'll have them fixed in no time).
- Conference room chairs stay in the conference room
- There is a laminator in Room 105

## **Personnel Directory**

**<http://www.ltrr.arizona.edu/personnel.html>**

This list is updated frequently and a hardcopy will be put in your mailbox every month.

Hard copy attached to back

## **Faculty and Staff Info**

<http://www.ltrr.arizona.edu/facstaff.html>

### **Faculty, Principal Investigators, Research Associates**

#### **name and interests**

**Jeff Dean, Acting Director** (AY 2004-05) -- archaeological dating and theory, environmental influences on behavior

[Tom Swetnam](#), **Director** (on sabbatical) -- ecology, fire, insects

**Bryant Bannister**, Dir. and Prof. Emeritus – archaeology

[Mike Evans](#), Assistant Professor, -- paleoclimate proxies and variability modeling, tropics, isotopes

[Hal Fritts](#), Professor Emeritus — tree-environment relationships/modeling, dendrochronology theory

**Dave Grow**, Research Associate — hydrology, geomorphology

[Katie Hirschboeck](#), Associate Professor — climate, hydrology, geomorphology, education

**Malcolm Hughes**, Professor — multiproxy paleoclimate, growth processes, microdensitometry

[Kurt Kipfmüller](#) — now employed at the University of Minnesota

[Steve Leavitt](#), Professor — isotopes, atmospheric chemistry, lab and field experimentation

[Dave Meko](#), Associate Research Professor — time series analysis, hydrology, water resources

**Fenbiao Ni**, Research Associate — synoptic climatology and downscaling, geostatistics and fuzzy logic

**Irina Panyushkina**, Research Associate — archaeology, cold environments, Asia

**Matt Salzer**, Research Associate — climate, environmental change

[Paul Sheppard](#), Assistant Professor — soil-tree growth relationships, techniques, reflected-light image analysis

**Ramzi Touchan**, Associate Research Professor — Mediterranean and Middle Eastern paleoclimate

[Ron Towner](#), Adjunct Assistant Professor — archaeology, human/environment interaction, chronometry

**Dick Warren**, Research Associate — archaeological dating

## Administrative Staff

name
<b>Phyllis Norton</b> , Administrative Associate
<b>Ana Martinez</b> , Administrative Assistant

## Research Staff

name
<a href="#">Rex Adams</a> , Research Specialist, Sr.—outreach, basic techniques
<b>Chris Baisan</b> , Research Specialist, Sr.—ecology, fire history, disturbance regimes
<b>Jim Burns</b> , Research Specialist—densitometric data, image analysis
<a href="#">Jim Fairchild-Parks</a> , Research Specialist—archaeology, human behavior
<b>Gary Funkhouser</b> , Research Specialist—analytical techniques, long chronologies, climate
<b>Martin Munro</b> , Research Specialist, Sr.—network administrator, image analysis

## **Student Info (grad and undergrad)**

Grad student page: <http://www.ltrr.arizona.edu/grads.html>

### **Graduate Students**

[Linah Ababneh](#) (PhD, GEOS) -- paleoclimate, paleoecology

[Kevin Anchukaitis](#) (PhD, GEOS) -- multiproxy paleoclimatology, tropical dendroclimatology, paleoecology, stable isotopes, objective analysis; Central and South America

[Jeff Balmat](#) (non-degree seeking, GEOG) -- historical ecology, ecological disturbance, spatial dynamics; southwest, mid-Atlantic

[Erica Bigio](#) (MS, GEOS) -- fire history, post-fire geomorphic processes

[Li Cheng](#) (PhD, SWES) – Elevated CO<sub>2</sub>, plants and soils, isotopes

[Elzbieta \(Ela\) Czyzowska](#) (PhD, ALRS) -- paleoclimatology, paleohydrology, fluvial sedimentology, remote sensing

[Don Falk](#) (Research Associate, EEB) -- fire ecology, scaling of ecological disturbance, probability models, restoration ecology

[Calvin Farris](#) (PhD, GEOG) -- fire history, modeling fire spread and fire scar data

[Jose \(Pepe\) Iniguez](#) (PhD, RNR) -- fire history, landscape structure, spatial patterns

[Ellis Margolis](#) (PhD, RNR) -- high intensity fire, quaking aspen

[Kiyomi Morino](#) (PhD, GEOG) -- hydrology, ecology, cottonwood; San Pedro River

[Scott St. George](#) (PhD, GEOS) -- hydrology, paleofloods, multidecadal drought, buried treasure; eastern Canada

[Jennifer Welti](#) (MS, ATMO) -- synoptic climatology, hydrology

### **Student Assistants**

**Chandler Birch**

**Erin Brannon**

**Diana M. Higdon**

**Christopher Jones**

**Mary Kim**

**Rachel Lewis**

**Laura Marshall**

**Brianna Muhlenkamp**

**Sean Oates**

**Michelle Schwimmer**

Tip: Grad students get 10% off at the bookstore. Bring your ID, and make sure to ask.

## **Tree-Ring Lab Brown Bag Lecture Series**

This is the Tree-Ring Lab speaker series that exhibits the cutting edge work in tree-rings from all over the world. Usually scheduled for **Wednesday @ noon** in the new Tree-Ring annex in the basement of Math East (<http://www.ltrr.arizona.edu/map.html>)

**Schedule online: <http://www.ltrr.arizona.edu/seminar.html>**

## The REALLY important things

### Where do I eat?

- Microwave available in 204/main office?
- Really close eats – Scoreboard café – N end of the football stadium
- Close eats –
  - El Sabor de Mexico – W of stadium on 6<sup>th</sup> St.
  - Zackary's Pizza – W of the stadium on 6<sup>th</sup> St
  - El Cubanito – W of the stadium on 6<sup>th</sup> St
  - Nam Som – W of the stadium on 6<sup>th</sup> St
  - UofA Student Union – NW of stadium (McDonalds, etc)
  - University St. and Park Ave. restaurants – sit down meals, ice cream, fast food
- Not so close eats –
  - 4<sup>th</sup> Avenue between University and Broadway (~ ¾ miles W of campus)

### Where's the pub?

Zackary's  
 Gentle Ben's brew pub  
 Frog n' Firkin  
 No Anchovies

### Where's some good live music?

Frog n' Firkin patio  
 4<sup>th</sup> Avenue

## **LTRR RESOURCES**

- Rex Adams: voted to be the #1 resource – he knows everything and more
- Measuring room (W annex)
- Classroom (W annex)
- Workshop - sample preparation (W annex) see Chris B. or Rex for training
- Room 204 reprint file and bibliographic database (photocopy and return, please)
- Reprint File - located just outside main office (photocopy and return, please)
- Store Room – S end of stadium on 2<sup>nd</sup> floor – many undated samples, possible research projects
- Library – (room 104A, E wall) collection of rare and important tree-ring related literature and more
- Henri G's ultimate tree-ring webpage: <http://web.utk.edu/~grissino/>
- Tree-Ring Society (see Steve Leavitt)
- Elevator and carts for moving things – see main office
- Lab C.C. – see main office
- Tree Ring Times – distributed in mailboxes
- Sign – out boards – keep everyone updated on where you are

- **FAQ's**

1. **Where's the W Annex?**      <http://www.ltrr.arizona.edu/map.html>
2. **Is Rex single?**                      Sorry, he's taken.
3. **Where do I get my keys?** Get a key form from Phyllis or Ana, and have your advisor sign it, then go to the key desk in the parking garage.
4. **Where are the bathrooms?**              In the back hallway past the computer room
5. **Can I use the shower in the athletic area?**              Yes
6. **Do we have phones and walkie-talkies for field work?** Yes, see Phyllis
7. **How do I make a long-distance call?** \*951 + area code + number + caller ID  
International: \*95011 + number + caller ID
8. **What is a caller ID and how do I get one?** See Ana
9. **Where can I get a cool Tree-Ring Lab t-shirt?** See Phyllis or Ana, \$7 - \$8 each.

### **FAVORITE LOCAL HIKE**

1. Aspen loop trail/Marshall Gulch; near the top of Mt. Lemmon - ~ 4 mile loop
2. Gates Pass; take 6<sup>th</sup> St./St. Mary's/Anklam west to parking lot S of pass – follow trail to the N along the ridge
3. Milagrosa Canyon – East on Tanque Verde, north on Catalina Highway, right turn onto Snyder Road. Drive East until you reach Suzenu. Turn north (left) and park at the end of Suzenu. Walk East through the private housing development until you reach the trail at the end of the road.

## **Course List**

**Fall 2004 courses**     [http://fp.arizona.edu/khirschboeck/ltrr\\_courses.htm](http://fp.arizona.edu/khirschboeck/ltrr_courses.htm)

Spring 2005 courses: <http://www.ltrr.arizona.edu/courses.html>

Explanation of Dendrochronology Colloquium 595e: Usually in the Spring, some of the Tree-Ring Lab faculty will teach a colloquium, related to a specific research area within dendrochronology. These seminar-style courses are usually between 1 and 3 units, and students may sign up for more than one. There is an organizational meeting at the beginning of the semester to decide when the colloquium will meet. The student will sign up for the total number of units of course # 595e with the on-line registration system, and then the meeting time of the individual colloquium will be decided at the meeting. The student will receive one grade for the course, which is a composite of the individual colloquium courses that the student took.

**Class reviews**  
**(by former and current students)**

GLOBAL CHANGE - GEOS 478-578 – Julie Cole – interesting, emphasize tree-rings and other proxies in global change research – WORTH TAKING (ellis margolis Fall 2003)

## Suggested Readings

*Reprints may be located in the reprint file just outside the main office or see the person who recommended the paper*

(From Kiyomi)

Stockton, C.W., Fritts, H.C. 1971. Conditional probability of occurrence for variations in climate based on the width of annual tree rings in Arizona. *Tree-Ring Bulletin* 31: 3-24.

Bergeron, Y. 1991. The influence of island and mainland lakeshore landscapes on boreal forest fire regimes. *Ecology* 72(6): 1980-1992.

Lloyd, A.H. 1997. Response of tree-line populations of foxtail pine (*Pinus balfouriana*) to climate variation over the last 1000 years. *Canadian Journal of Forest Research* 27(6): 936-942.

(From Cal)

Kipfmüller, K. F. and T. W. Swetnam. 2001. Using dendrochronology to reconstruct the history of ecosystems. Chapter 8, pages 199-228, In D. Egan and E. A. Howell eds., *Techniques for Discovering Historic Ecosystems*. Island Press, Washington.

Swetnam, T. W., and J. L. Betancourt. 1998. Mesoscale disturbance and ecological response to decadal climatic variability in the American Southwest. *Journal of Climate* 11:3128-3147

(From Ellis)

Swetnam, T.W. 1993. Fire history and climate change in giant sequoia groves. *Science* 262: 885-889.

Kitzberger, T., Swetnam, T.W., and Veblen, T.T. 2001. Inter-hemispheric synchrony of forest fires and the El Niño-Southern Oscillation. *Global Ecology and Biogeography* 10: 315-326.

**APPENDICES**