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Lifelines - Departmental Newsletter

Biology Department

Winter 2013

Lifelines Winter 2013

Southern Adventist University

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Lifelines

Winter 2013



Biology/Allied Health Department

Research Update in the Biology Department

It's obvious from the number of biology students involved in research (24 this semester) that science investigation is becoming popular. Of the current projects, individual poster sessions will be given by five students in April at the Association of Southeastern Biologists:

Ancient DNA Conifer Project—Caleb Ho-A-Shoo, Melissa Seidel, Lauren Sigsworth.

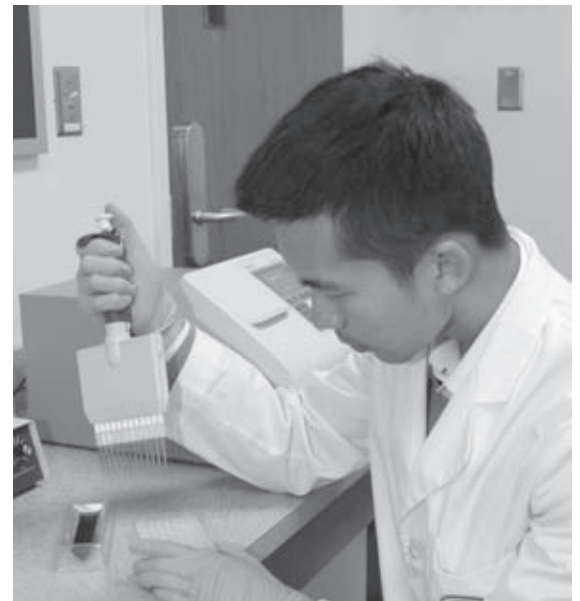
Protocol—Reducing Microbial Load in Wild Harvested Herbs—Ben Wildman, Leslie Courtad

Portable Water Filtration System—Shelly Hwang

Methicillin Resistant *Staphylococcus aureus*—Issac Chong, Andrew Jaeger

Sex-dependent Effects of Vitamin C Supplementation on Cytochrome P450 Activity in *Drosophila melanogaster*—Brianna Taylor

Dendrochronology Conifers of the Biology Trails at Southern Adventist University—Brenton Campbell



Effects of Atrazine on General Esterase Activity in Sexed *Drosophila melanogaster*—Tyler dos Santos

Emergency Medicine—Door to Scanner Time for Stroke Patients—Laurel Schuler, Alex Erskine

“The Sleepy Brain on Drugs” Mouse Study—Jennifer Pauldurai

Developing a Site-wide Reference Tree-ring Chronology on the Biology Trail System of Southern Adventist University: How the Past Informs the Future of Our Forests—Michael Chung, Melissa You, Jorge Magana, Seth Stennis, Brenden Dodd

Differential Protein Expression During Limb Regeneration—Adrian Sarli, Matthew Green, Victoria Ahles, Victor Hong



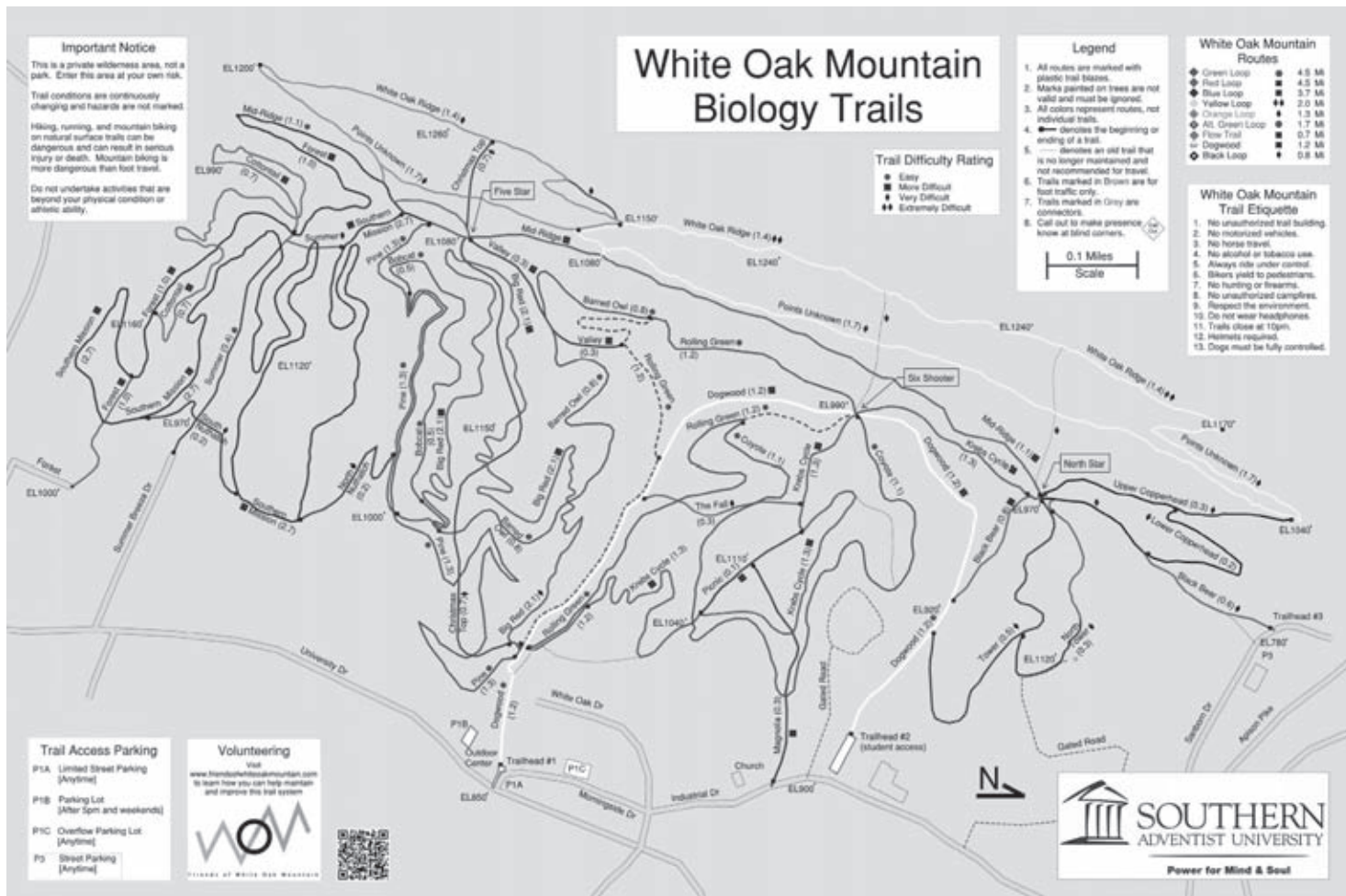
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Randy Bishop, MSPT
Aaron Corbit Ph.D.c
Ann Foster, Ph.D.
Lucinda Hill, M.D.
Valerie Lee, M.S.
Rick Norskov, M.D.
Lee Spencer, Ph.D.
Keith Snyder, Ph.D.
Debbie Strack, Office Mgr.
Ben Thornton, Ph.D.
Neville Trimm, Jr., Ph.D.
Tim Trott, Ph.D.

Biology Trail Updated



Twenty-two new signs are positioned at primary trail junctions to help trail users. Several big trail systems in the surrounding states are using this design for their trails. Overall usage has increased over 1000 percent over the past two years. We have about 18 miles of new and re-engineered

trails for riders, runners and hikers. Go to southern.edu/biology for color map. A great big “THANK YOU” to the community “Friends of White Oak Mountain” for all their amazing work.

Biology Department Establishes a Research Endowed Scholarship

In February, the Biology Department established the Biology Research Endowed Scholarship Fund through the Advancement office at Southern. The purpose of this endowment is to fund student research including presentations at professional meetings.

As research on the undergraduate level has become more important for both pre-professional (Pre-med, Pre-dent) students and those going on to graduate school, one hundred percent of the Biology Department faculty and staff participated in giving to initiate this endowment scholarship with gifts on February 13, 2013. “This demonstrates the dedication of our faculty and staff to have 100% participation in donating to this fund,” said Keith Snyder, Biology Department chair.

The goal is to build the endowment to \$50,000 over the next three years. Recipients must be a biology major and be involved in research either on or off campus. Awarding of the Biology Research Endowed Scholarship Fund will begin in the fall after the fulfillment of the \$50,000 minimum by 2016.

Those interested in helping fund this endowed scholarship can go to www.Southern.edu/give. Click on Endowments and type in “Biology Research Endowed Scholarship Fund.” You may also mail your gift to Southern Adventist University, Advancement Office, P.O. Box 370, Collegedale, TN 37315 or call 423.236.2772 to make your gift over the phone.

Student Missionary at Familia Feliz in Bolivia



I always asked myself: “Do I become a student missionary after two years of science classes and risk forgetting information needed for future classes and the Medical College Admission Test (MCAT)? The answer is: “You bet!”

I am at an orphanage in Bolivia for my two remaining months. And . . . I feel I am right where I am supposed to be in life. I bake bread, teach the 5th and 6th grades, plant and harvest rice and corn, chain-saw logs, tickle all 45 underprivileged children, and play soccer with them for hours on end. Amazingly, I have had the time to learn some Spanish, reorganize

priorities, confirm my desire to medically treat children, learn to parent and cook, and learn some man-skills. Talk about a worthwhile experience! Try doing all that at Southern!

Sure, I may need to study slightly harder for classes and the MCAT to get back into the swing of things, but that is such a small price to pay for the experience of a lifetime! If your worry is the same as mine was, I challenge you to go for it—you will find yourself right where God wants you to be.

Eric Morris

Alumni News Corner

My name is Gregory Jeon and I am currently in Bolivia as a student missionary with my friend, Amos Chon. We both graduated from Southern as Biology majors in May 2012. Bolivia is located in Central South America, surrounded by Peru, Chile, Brazil, Paraguay, and Argentina. We are located two hours from the city of Santa Cruz de la Sierra, the most populated city in Bolivia. We are helping out a medical missionary institute called Instituto Quebrada Leon. The institute trains students to be medical missionaries who will use the health message as an aid to evangelize the people. The institute has a nine-month course where Bible and health courses are taught.

As student missionaries, we are helping out at the institute in all different types of work on campus such as construction, gardening, cooking, etc. We also go out into the community by helping plant churches, giving Bible studies, and visiting our neighbors. Bolivia is a very under-developed country so many people do not know the basics of health. The Bolivian diet consists of meat for every meal and other foods high in fat. The medical missionary work involves us going out into the community and offering health/nutritional advice and offering treatments and Bible studies. Our group has been able to reach many Bolivians with the gospel with the help of the health message. From this student missionary experience, we have learned that, no matter what position you are in, as leader, volunteer, or student, you can always learn. Although we have come as volunteers, we have learned so much. The most important being that a missionary is not a person who travels to a distant country, but rather, a missionary is one who serves whomever, wherever they are.

Gregory Jeon



Gregory with my Bolivian friend and Amos.

Biology Graduates 12-13



Leroy Abrahams
BA Biology



Alex Arquitt
BS Biology



Kathleen Au
BS Biology



Josianne Bailey
BS Biomedical



Woosly Calixte
BA Biology



Isaac Chong
BS Biomedical



Tucker Coston
BA Biology



Tyler dos Santos
BS Biology



Amanda Erskine
BA Biology



Cassia Gallimore
BA Biology



Josue Gibbs
BS Biomedical



Caleb Ho-A-Shoo
BS Biomedical



Matthew Hollie
BA Biology



Shelly Hwang
BS Biomedical



Naomi Jackson
BA Biology



Andrew Jaeger
BA Biology



Andrew Keyes
BA Biology



Mark Knutson
BA Biology



Lauren Low
BA Biology



Emily Marquez
BS Biomedical



Hannah Morgan
BS Biomedical



Young Ohsie
BA Biology



Bryan Otis
BA Biology



Nirali Peter
BS Biomedical



Ryan Rigby
BS Biomedical



Katie Roddy
BS Biology



Hiel Rutanhira
BS Biology



Brett Schaeffer
BA Biology



Melissa Seidel
BS Biology



Brittney Shazier
BA Biology



Lauren Sigsworth
BA Biology



Hannah Smith
BA Biology



Nithya Thomas
BS Biomedical



David Tryon
BS Biology



Silzie Vieira
BA Biology



Jessie Wire
BS Biomedical

Allied Health Graduates 12-13



Camrie Ackerman
AS Physical Therapy



Sean Ancheta
AS Physical Therapy



Amber Bako
AS Speech Pathology



Adrian Benna
AS Physical Therapy



Evgeny Chirshev
BS Clinical Lab Science



Franklin Concepcion
AS Physical Therapy



Jaclyn Cubero
AS Physical Therapy



Diana Ferguson
AS Dental Hygiene



Melissa George
AS Nutrition/Dietetics



Damaris Gonzalez
AS Nutrition/Dietetics



Casandra Goris
AS Dental Hygiene



Elizabeth Granada
BS Clinical Lab Science



Monique Grant
AS Speech Pathology



Haley Hamilton
AS Physical Therapy



Becky Keyes
AS Speech Pathology



Kyle Leeper
AS Physical Therapy



Amy Loreda
AS Dental Hygiene



Hubert Maitland
AS Occupational Therapy



Coty Malone
AS Physical Therapy



Palmetta Maxis
BS Clinical Lab Science



Ashley McKenzie
AS Occupational Therapy



Ashley Morgan
AS Nutrition/Dietetics



Haruka Mori
AS Physical Therapy



Kirsten Russell
AS Physical Therapy



Chris Shadix
AS Physical Therapy



Marilyn Siahann
AS Occupational Therapy



Christopher Tangunan
BS Clinical Lab Science



Alexandra Tesheira
AS Speech Pathology



Stephanie Thomas
AS Speech Pathology



Stella Tsui
AS Physical Therapy



Olivia Twentyman
AS Speech Pathology



Vanessa Valleray
BS Clinical Lab Science



Angela Weaver
AS Physical Therapy



Alexandria Wise
AS Occupational Therapy



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Find Us on Facebook

On January 9, this year, the Southern Adventist University Biology/Allied Health Department created its first ever Facebook page. The goal is to provide a medium through which the department can better connect with its current students and alumni. We hope to post general announcements and reminders that would be relevant to current students. We will continue posting pictures of fun, cool events that the department does—like our Tropical Biology class trip to Indonesia. The Biology/Allied Health newsletter—Lifelines—is

also available there as well as on our website at southern.edu/biology. We would like to feature some of the achievements of our alumni as a means of showing our current students, and potential students, how well prepared for their careers they could be upon graduating. So, search Facebook for **Southern Adventist University Biology/Allied Health Department**, make comments, and . . . “like” the page! This could be your opportunity to reconnect with old friends and inspire young minds.