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

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**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
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.
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

Gregory Jeon

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
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
BS Biology

Nirali Peter
BS Biomedical

Ryan Rigsby
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

Sitzie Vieira
BA Biology

Jessia Wire
BS Biomedical
Allied Health Graduates 12-13

Camrie Ackerman
AS Physical Therapy

Diana Ferguson
AS Dental Hygiene

Monique Grant
AS Speech Pathology

Coty Malone
AS Physical Therapy

Chris Shadix
AS Physical Therapy

Olivia Twentyman
AS Speech Pathology

Sean Ancheta
AS Physical Therapy

Melissa George
AS Nutrition/Dietetics

Haley Hamilton
AS Physical Therapy

Palmetta Maxis
BS Clinical Lab Science

Vanessa Valieray
BS Clinical Lab Science

Amber Bako
AS Speech Pathology

Becky Keyes
AS Speech Pathology

Ashley McKenzie
AS Occupational Therapy

Angela Weaver
AS Physical Therapy

Adrian Benne
AS Physical Therapy

Kyle Leeper
AS Physical Therapy

Ashley Morgan
AS Nutrition/Dietetics

Alexandra Tesheira
AS Speech Pathology

Evgeny Chirshev
BS Clinical Lab Science

Damaris Gonzalez
AS Nutrition/Dietetics

Haruka Mori
AS Speech Pathology

Casandra Goris
AS Dental Hygiene

Amy Loredo
AS Dental Hygiene

Hubert Maitland
AS Occupational Therapy

Kirsten Russell
AS Physical Therapy

Stella Tsui
AS Physical Therapy

Franklin Concepcion
AS Physical Therapy

Elizabeth Granada
BS Clinical Lab Science

Marilyn Siahaan
AS Occupational Therapy

Olivia Twentyman
AS Speech Pathology

Vanessa Valieray
BS Clinical Lab Science

Angela Weaver
AS Physical Therapy

Alexandra Tesheira
AS Speech Pathology

Alexandria Wise
AS Occupational Therapy
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.