

The Alumnidae

Spring 2013

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Department of Zoology, Life Sciences West 501
<http://zoology.okstate.edu>
405-744-5555

Dr. Herbert Bruneau

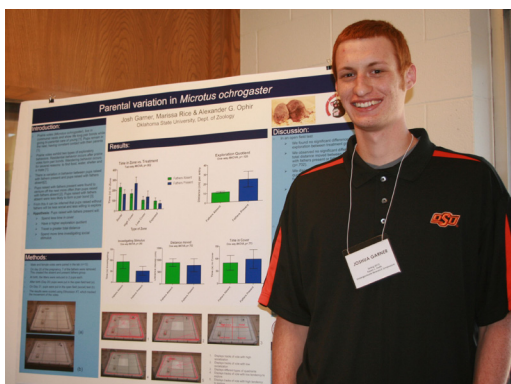
Zoology Professor Emeritus Herbert Bruneau, 84, passed away 12 April 2013 in Stillwater, OK. Herb was born in Cornwall, Ontario, Canada and received his bachelor's degree in Zoology from McGill University (Montreal, Quebec). He went to the University of Texas in Austin to study cytology and genetics with Michael J. D. White and Wilson Stone. He completed an M.A. and a Ph.D at UT. Herb then joined the faculty at Oklahoma State and taught for 40 years and was long associated with undergraduate education in the life sciences. He taught/co-taught the General Genetics class at least 75 times. In addition, he taught courses in Biological Sciences, Cytology, Evolution, and offered the first departmental course in Evolution and Human Heredity. Herb was deeply committed to inspiring young biologists and received both the Amoco and the Regents Teaching awards. He was involved with the National Sciences Foundation Academic Year and Summer Institute Programs for High School Science Teachers and worked tirelessly to aid high school science teachers to return to campus and take summer courses.



Herb retired in 1995 but remained an active supporter of the Department of Zoology Seminar Series and continued to participate each semester until his death. In 2012 he established the **Herbert and Betty Bruneau Endowed Zoology Seminar Fund** (see page 5 of Fall 2012 *The Alumnidae*).

Herb enjoyed his retirement by attending Elderhostel programs and visiting wineries with his wife Betty who he met in graduate school and married in 1953. He was known among fellow faculty for his love of his wife, their travels together, and a good glass of wine. He endeavored to teach many of us about the subtleties of oenology. Herb and Betty have two children, Carol, a Professor of Marketing at the University of Montana, Missoula, and David, working in mid-management at Boeing Aircraft, Mesa, Arizona.

Memorial contributions may be made in his name to the OSU Foundation: The Herbert and Betty Bruneau Endowed Zoology Seminar Fund, c/ Loren Smith, Department Head, Department of Zoology, 501 Life Sciences West, Oklahoma State University, Stillwater, OK 74078.



Josh Garner was one of 22 undergraduate presenters who recently participated in the second Karen L. Smith Undergraduate Research Symposium. Josh and his coauthors - Marissa Rice, Richard Dolman, Loma Pendergraft, and Dr. Alex Ophir - studied the effects of parental variation on prairie voles. See full article on page 3.

Greetings from the Department Head

As you know we recently had our annual Zoology Banquet. This year it was held in the beautiful Click Hall, Conoco Phillips Alumni Center. This was the largest attendance banquet the department has had and we gave out more (and larger) awards and scholarships than we ever have before. Obviously this is because of the terrific generosity of our alums, friends, and emeritus faculty. Hopefully, we can continue these trends.

Every five years, departments at OSU are required to prepare a report on the key productivity trends in their respective units. Although Zoology's report has been delayed due to potential reorganization of the life science departments, I thought you might be interested in these key indicators from the past five years. Zoology's undergraduate enrollment has increased 68%, from 393 to 662. We now have the largest enrollment out of the 24 departments in the College of Arts and Sciences. Graduate student enrollment also increased 45% from 42 to 61. Outside research grant funding is at \$2.4 million (the largest in at least 10 years and one of the top two in the college). Moreover, we had a 168% increase in federal funding expenditures. The faculty and students published 64 papers in peer reviewed scientific journals this year, about double that of five years ago (the quality of those papers as measured by impact factors is the highest on record). The number of departmental endowments (scholarships, fellowships, and lecture series) also increased from three to eight. This is all because of the wonderful efforts of our faculty and staff.

Finally, as you can see in the article on page 1, we lost a great colleague, friend, and mentor, Dr. L. Herbert Bruneau. We will all miss him but he left an excellent example of professionalism for all of us to follow.

Matt Anderson receives Honorary Marshall Award

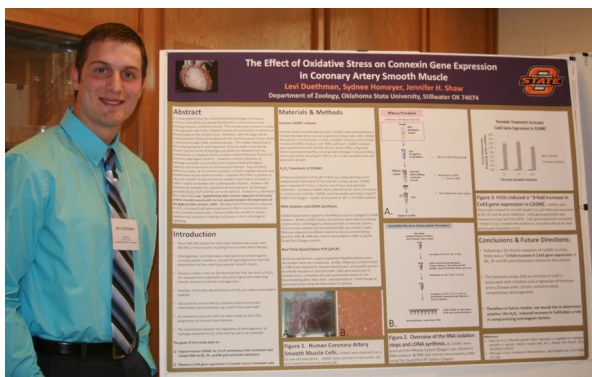


Matt Anderson, a Ph.D student advised by Dr. Stan Fox in the Department of Zoology, has received an Honorary Marshall Award from Oklahoma State University. The award honors graduate students that have demonstrated scholarly achievement, as evidenced by academic performance and discipline-appropriate scholarly contributions, and capture the essence of OSU's land-grant mission. Matt was one of two marshalls selected at the Ph.D level. Matt will be recognized at commencement and in the program, he will also be provided special gown adornments, and, will lead the graduates in the processions/recessions and awarding of the diplomas.

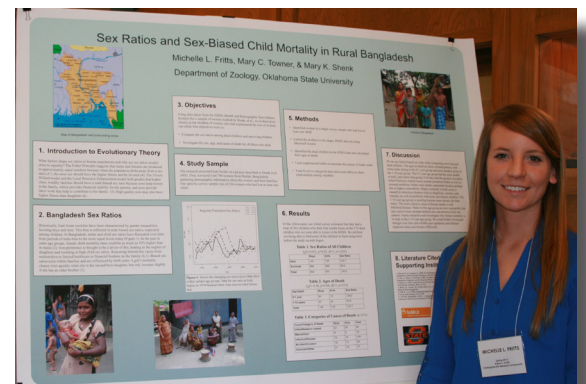
Matt, moving directly from his B.S. to the Ph.D., committed himself not only to an outstanding doctoral dissertation but immersed himself into the innovative educational aspect of our university and its service to the community, OSU and beyond. In doing so he became a part of OSU and its land-grant mission. Early on, Matt was a big part of the innovative discovery-teaching style of our large Introductory Biology course, writing parts of the laboratory manual and later as a T.A. Matt was immediately comfortable in guiding students to their own conclusions in lab using the scientific method, rather than giving the objectives at the onset like in most lab courses. Further underscoring Matt's community activities and outreach, his CV lists numerous contributions as instructor to pre-college Upward Bound programs, mentor to special NSF and NIH programs, mentor to a Niblack Research Scholar, maintenance of public live animal displays, co-advisor to the OSU Herp Club, interactive snake talks to numerous groups from pre-school, through middle and high school, university, and even retired seniors, and mentoring a horde of undergraduate researchers. Matt has published his work in impressive scholarly outlets and made oral presentations at national and international scientific meetings. Matt Anderson is a strong part of "INNOVATE - CREATE - EDUCATE - GO STATE!" Congratulations from your department!

Karen L. Smith Undergraduate Research Symposium

On 19 April 2013 the Zoology Department held the second Karen L. Smith Undergraduate Research Symposium. Karen, who passed away on 2 November 2012 was the senior academic counselor in the Department of Zoology. The symposium was established in November 2012 (first symposium held 30 November 2012 - see article in Fall 2012 newsletter) in recognition of Karen's tireless efforts to enhance the undergraduate experience - especially those in the Department of Zoology. The symposium provides professional development opportunities for undergraduates in the department. This time there were 22 poster presentations that included the involvement of 24 undergraduates, 14 graduate students, and 10 Zoology faculty members. Topics ranged from the effects of nutrients on animal growth to behavioral responses to invasive species. The Karen L. Smith Research Excellence Award was given to **Ashley C. Collier** who worked with Dr. Kristen Baum on the effects of parasitic infection on movement behavior of two different beetle species. This award given for the best student presentation at the symposium includes \$200 and is made possible by the **Karen L. Smith Undergraduate Research Symposium Fund**. The next symposium will be held toward the end of the fall semester.



Levi Duethman presented results of his work with Sydnee Homeyer and Dr. Jennifer H. Shaw on effects of oxidative stress on smooth muscle.



Michelle L. Fritts (above) collaborated with Drs. Mary Towner and Mary K. Shenk (University of Missouri) and presented findings on sex-ratio and sex-biased child mortality in rural Bangladesh.



Mary Beth Davis worked with Dr. Karen McBee on identification of *Tachyoryctes* in OSU's Collection of Vertebrates. Mary Beth was one of three undergraduates who utilized the Collection of Vertebrates for research projects.

Student Award Winners 2013 Annual Zoology Awards

The 2013 Annual Zoology Awards celebration was held in Click Hall at the Conoco Phillips Alumni Center on 30 March 2013. The banquet was well attended by our generous donors, award winners, department members and their families. Award winners are listed below and on the following page.



Left to right: Dr. Loren Smith, Ryan Greenway, and Dr. Matthew Bolek. Ryan received the Outstanding Zoology Sophomore Award.



Left to right: Dr. Loren Smith, Brandi Gallaher, and Dr. Matthew Bolek. Brandi received the Outstanding Zoology Junior Award.

Undergraduate Students

Outstanding Zoology Sophomore: Ryan Samuel Greenway
Outstanding Zoology Junior: Brandi Nicole Gallaher
Outstanding Zoology Senior: Shelby Danielle Burrige
Outstanding Physiology Senior: Megan Anne Reidy
Outstanding Biological Sciences Senior: Holly Jane Wehde
Edwin Chappabitty, Jr. MD Scholarship: Ashley L. Lonetree
Edwin Chappabitty, Jr. MD Scholarship: Stacy Lynn Rutherford
Dr. G. Michael Steelman Scholarship: Lauren Foley



Left to right: Stacy Lynn Rutherford, Dr. Matthew Bolek and Dr. Edwin Chappabitty, Jr. Stacy received the Edwin Chappabitty Jr. M.D. Scholarship.



Left to right: Dr. Loren Smith, Megan Reidy, and Dr. Matthew Bolek. Megan received the Outstanding Physiology Senior Award.

*Student and Faculty Award Winners
2013 Annual Zoology Awards*



Left to right: Anna Hiatt and Dr. Andy Dzialowski. Anna received the Outstanding Zoology Doctoral Award



Left to right: Dr. Jerry Wilhm and Heather Stigge. Heather received the Wilhm Graduate Student Travel Award which was given for the first time in 2013.

Graduate Students

*Outstanding Zoology Masters Student: Shane A. Morrison
Outstanding Zoology Doctoral Student: Anna Correen Hiatt
Wilhm Zoology Teaching Assistant - Masters: Rachel E. Eguren
Wilhm Zoology Teaching Assistant - Doctoral: Medhavi Ambardar
S. L. "Bud" Burks Memorial Graduate Research Award: Jared M. Goos
Waters Grant-in-Aid of Research: Ashley R. Knoch
Bob and Julia Bollinger Field Research Grant: Shannon L. Andreoli
Wilhm Graduate Student Travel Award: Heather Ashley Stigge
Zoology Graduate Student Society Outstanding Masters Student: David Haines
Zoology Graduate Student Society Outstanding Doctoral Student: Dana Lee
Zoology Graduate Student Society Best Lunchtime Seminar Presentation:
Fall - Heather Ashley Stigge
Spring - Priyanka Roy Chowdhury*

Faculty

Zoology Graduate Student Society Margaret S. Ewing Outstanding Mentor Award: Dr. Michael Tobler



Left to right: Luann Waters and Ashley Knoch. Ashley received the Waters Grant-in-Aid of Research Award.



Left to right: Dr. Julia Bollinger and Shannon Andreoli. Shannon received the Bob and Julia Bollinger Field Research Grant Award.

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Keep in Touch and Help Us Grow Stronger

We hope you enjoy *The Alumnidae*, and we hope to hear from you about future issues. To be sure that you continue to receive the newsletter, please update address and email information with the OSU Alumni Association at:

<http://www.orangeconnection.org>

If you have comments, questions, or contributions for *The Alumnidae* send them directly to meredith.hamilton@okstate.edu

YES! I want to support the ZOOLOGY DEPARTMENT at Oklahoma State University!

1. DESIGNATION

- Zoology Excellence Fund (223750)
- Wilhm Teaching Assistant Award (228230)
- Wilhm Graduate Student Travel Award (228235)
- Scholarship for Zoology Students (224550)
- Burks Student Award (223590)
- Herbert and Betty Bruneau Zoology Seminar Fund (229873)
- Dr. Michael Steelman Scholarship (229830)
- Bryan P. Glass Scholarship/Fellowship (229893)
- Chappabitty Scholarship (228855)
- Collection of Vertebrates
- Bob and Julia Bollinger Field Research Grant (228860)
- Karen L. Smith Undergraduate Research Symposium Fund (2298530)

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