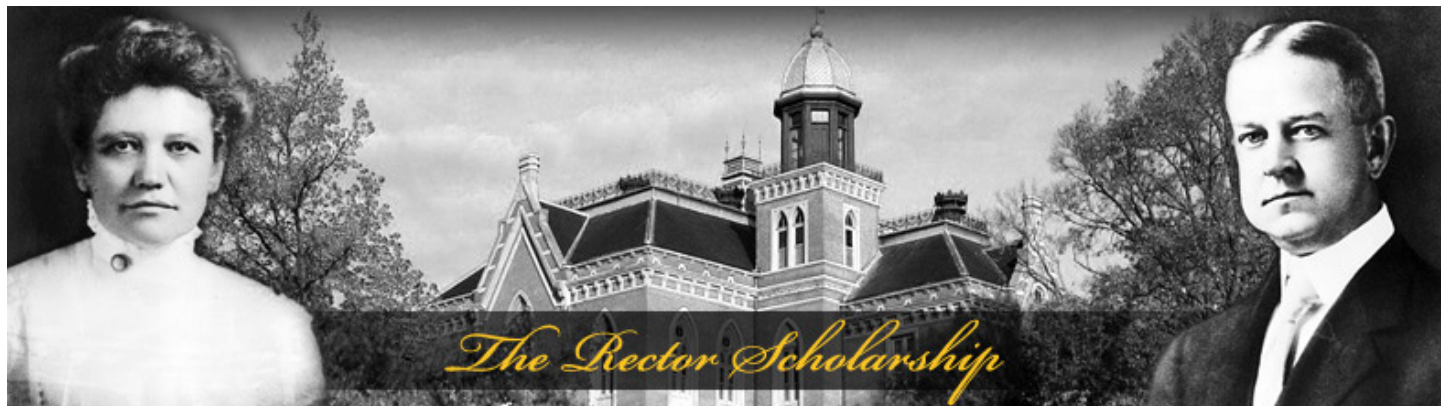


THE RECTOR RECORD

GREENCASTLE, INDIANA, APRIL 2015



From the Director

The 2015 *Rector Record* continues to feature Rector Voices, the words of Rector Scholars. All of the previous contributions have been from alumni, but this year's piece is from current Rector Clare Hasken '15.

Last fall a fourth Rector Scholar joined professors Jeff Hansen '86, Carrie Klaus '93 and Jeff McCall '76 on the DePauw faculty. Andy Cullison '01 is director of The Janet Prindle Institute for Ethics and associate professor of philosophy.

A major DePauw event during the last year was the creation of the Murad Medal, named in honor of Rector Scholar and Nobel Laureate Ferid Murad '58. Fittingly, the first recipient of the medal is Rector Scholar Samantha Anderson '14.

The past year has seen several generous contributions to the Rector Scholarship Endowment Fund totaling over \$250,000. These gifts continue the long practice of Rector alumni supporting the program which meant so much to them.

Comments, questions or suggestions concerning the *Rector Record* or the Rector Scholarship Program may be sent to John Morrill at johnmorrill@depauw.edu or to Bartlett Alumni House Annex, DePauw University, P.O. Box 37, Greencastle, IN 46135.

Rector Voices: Clare Hasken '15

When I first began my search for the perfect college, I figured DePauw University would offer an undergraduate experience very similar to other liberal arts colleges of the Midwest. Each school boasted of small class sizes, ample opportunities to interact with professors, and longitudinal integration of liberal arts competencies within its curriculum. The deciding factor for me was the offer from DePauw to receive the merit-based Rector Scholarship. As I reflect upon the past four years, I realize that the Rector Scholarship program is a special part of DePauw's history that cannot be found anywhere else.

My most memorable learning experiences at DePauw did not take place in the classroom. Although I majored in biology, I had the opportunity to study the link between poverty and education while in Nicaragua and assisted with the treatment of injured and sick animals in the Cook Islands. In both situations I interacted with a diverse group of people, learned about local cultures and customs, and delved deeper into social and geographical factors that influence one's access to essential resources. From these experiences, I have a better appreciation for the liberal arts' emphasis on the development of communication



and critical thinking skills as well as the ability to integrate ideas from multiple disciplines.

Additionally, my involvement in the Science Research Fellows Program of Distinction provided me with hands-on research opportunities beginning my first semester of college. In Dr. Henning Schneider's lab, I studied the effects of Lorcaserin, a weight loss drug, and SB242084, a stimulant, on the nicotine response of the 5HT_{2C} serotonin receptor of zebrafish larvae. After 24 hours of incubation in a specific concentration of the drug, we measured

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Hasken *(Continued from page 1.)*

the percentage of zebrafish larvae that were actively moving in each treatment by capturing a series of photographs taken two seconds apart at various time points before and after the introduction of nicotine. Compared to control activity levels, Lorcaserin blunted the effect of nicotine because no increase in activity level was observed. SB242084 treatments, however, demonstrated increased activity levels similar to control treatments after exposure to nicotine. Therefore, Lorcaserin may reduce zebrafish sensitivity to nicotine and could perhaps reduce its addictive effect in people. Through this experience I developed basic laboratory techniques essential for research in a variety of scientific fields.

My research internship on campus the following summer provided me with a completely different experience. Instead of looking at science through a molecular or behavioral lens, I studied the effect of functional diversity of chironomid macroinvertebrate larvae on carbon cycling within freshwater sediment using a broader community ecology approach. With the DePauw Nature Park's quarry pond serving as our model ecosystem, I worked with Dr. Ken Fortino and a fellow DePauw student to design and

complete this study. We determined the rate of organic matter breakdown (OMB), or the conversion of carbon from plant material into carbon dioxide gas, within the sediment by measuring the change in concentration of dissolved oxygen within the water column of pond-simulated treatments. The treatments consisted of a glass Mason jar, filtered pond sediment, pond water, and larvae from tanypodinae, chironominae, or both of these chironomid subfamilies at their natural densities. Since oxygen gas is required for the conversion of plant particles to carbon dioxide, the change in dissolved oxygen over time reflected the amount of oxygen consumed by all organisms and microbes present in the treatment. Our results suggested that tanypodinae larvae, which function as predators and inhabit the most superficial sediment layer, did not affect OMB within the sediment. Chironominae larvae, which function as collectors, did significantly affect OMB and likely stimulated metabolic activity of surrounding microorganisms by forming channels that increased oxygen availability deeper within the sediment.

Additionally, I completed two summer research internships off campus. At

the University of Wisconsin-Madison I studied neurogenesis in the third ventricle of the adult rat brain. I also contributed to two quality improvement projects with DePauw alumna Dr. Kathlyn Fletcher, M.D. at the Medical College of Wisconsin in Milwaukee with the goal of improving patient outcomes by minimizing error. Through these internships I gained valuable experience available only at larger academic institutions, and I established relationships with faculty mentors that will be beneficial as I continue along the path towards medical school.

Four years ago, I decided to attend DePauw University primarily because I received the Rector Scholarship. My Winter Term and research opportunities, as well as the rigor of DePauw's curriculum, have set me apart from other medical school applicants fighting to secure a spot in the entering class next fall. I cannot reflect upon my DePauw experience without feeling grateful for the generous support I have received through the Rector Scholarship program. I feel honored to be a member of this special group of people, and I wish the best of luck to all of the Rector Scholars graduating in May!



The 2014-15 Rector Scholars at the annual fall dinner at The Janet Prindle Institute for Ethics.



Andy Cullison '01, director of The Janet Prindle Institute for Ethics and Rector Scholar, addresses current Rector Scholars at the annual fall dinner.

Inaugural Murad Medal Citation for Samantha Anderson '14

Named for Nobel laureate Dr. Ferid Murad '58, the Murad Medal recognizes the senior who has had the most significant scholarly or artistic achievements during his or her time at DePauw.

Samantha is graduated from DePauw in three years as both a Rector Scholar and a Science Research Fellow.

Committed to teaching science, she worked as a teaching assistant for the chemistry and biochemistry department and as a Quantitative Reasoning Center tutor. She encouraged other women to pursue their interest in science through her role as a peer mentor for the Women in Science organization.

Samantha worked on five different research projects during her time at DePauw University. As a first-year student, she learned how to weld while designing and building the protein sculptures that now hang in the atrium of the Percy Lavon Julian Science & Mathematics Center – a collaborative

research project between biochemists and artists.

Samantha found her passion for science research while completing a second research project that investigated protein structure and function. During another project, Samantha worked to create a drought resistant plant that could make its own water.

Based on this work, combined with extraordinary classroom performance, the biochemistry department awarded Samantha the Wylie-Condit Science Scholarship for promising science students. Samantha completed an internship in biochemistry and microbiology at the University of Wisconsin-Madison. This work resulted in publication in *Molecular Microbiology*.



She also worked on a project focused on neglected tropical diseases. Many of Samantha's projects culminated with poster sessions and oral presentations where Samantha was able to hone her science communication skills.

Samantha continues her education at the University of Wisconsin-Madison in the Integrated Ph.D. Program in biochemistry.

Little Known Rector History from the May 1932 *Rector Record*

The pages at right appeared the May 1932 *Rector Record*. The awarding of Edward Rector Fellowships was discontinued in 1935 because of a decline in Rector endowment revenues during the Great Depression. They were never reinstated.

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THE RECTOR RECORD

Edward Rector Fellowships

In 1929, ten years after the Edward Rector Scholarship Foundation was established, Rector Fellowships were introduced which awarded to outstanding seniors, additional funds with which to go into post-graduate work in their chosen fields. These fellowships were thrown open to both men and women and in the beginning provided \$1,200 each for the six winners. This year the value of each fellowship was reduced to \$1,000 and the number awarded increased to eight.

In each application, the candidate is asked not only to give the nature of the problem he plans to study, but the preparation he has made and the place he plans to work. Those giving the most promise of doing creative work in their chosen majors are then selected by a committee on awards.

To date, most of the Rector Fellows have been doing work in the larger universities of the United States, England and Germany. The results have been most gratifying and highly satisfactory. It is even hoped that the number will be increased in the near future.

DePauw graduates who have been granted Rector Fellowships are:

CLASS OF 1929

HAROLD BOCKOVEN. Studied a year at Rush Medical College, working toward the degree of Doctor of Medicine.

EVELYN CARSON. Received A. M. degree in Latin at Cornell University in 1930. Since that date she has held a graduate scholarship in Archaeology and Comparative Philology and is now working for the Ph. D. degree.

ALVIN ROCKWELL. Studied at the London School of Economics, 1929-30, with special emphasis on the subject of disarmament. He is now a student in Harvard Law School.

HELEN STOKES. Studied English Literature at Columbia University.

PAUL SWEET. Appointed to do graduate work at the University of Goettingen; made a study of "The Relation of the United States to the Reparations Question". He studied at the University of Chicago, 1930-31; now a student at the University of Wisconsin.

WARD HARTZELL. Received A. M. degree in American History from the University of Wisconsin. The subject of his master's thesis was on the "Permanent Indian Frontier during period of the 1830's and 1840's". He was granted a Beveridge fellowship from DePauw for 1930-31 and continued his studies at the University of Wisconsin the following year. He is now an assistant in the Department of History at the University of Wisconsin.

CLASS OF 1930

HERBERT CARTER. Appointed to study at the University of Illinois in the field of Organic Chemistry; received A. M. degree and is now an assistant in the department of Organic Chemistry at the University of Illinois.

HELEN LOUISE COX. Appointed to do graduate work in Latin at the University of Pennsylvania. Received A. M. degree in 1930 and is continuing her post-graduate studies there.

HELEN DAY. Appointed to study German Literature and Philology at the University of Breslau. She was also granted a Student Exchange fellowship. She is now studying at the University of Berlin and is the holder of a fellowship granted by the German Exchange Fellowship Foundation for 1931-1932.

JAMES ARTHUR FUNSTON. Received A. M. degree in International Law at Harvard University in 1931. He is now instructor of Political Science in Earlham College.

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WINSTON HOLE. Appointed to study Physics at the University of Wisconsin. He received the A. M. degree June 1931 and is now an assistant in the Department of Physics at the University of Wisconsin. He is taking work leading to the Ph. D. degree.

ROBERT KIMBERLIN. Received A. M. degree from the Graduate School of Art and Sciences, Harvard University. He is now a student in the Harvard Law School.

RUSSELL ROSENKRANS. Appointed to do graduate work in Geology and Mineralogy at Pennsylvania State College. He is now an instructor in that college.

CLASS OF 1931

E. G. STANLEY BAKER. Appointed to do research work in Embryology and Physiology leading to an advanced degree at the University of Chicago.

NORMAN FERGUSON. Appointed to do graduate work in Latin at the University of Pennsylvania and expects to complete work for the A. M. degree this year.

JOHN GEORGE. Appointed to study English Literature at Harvard University. JAMES HUPP. Appointed to do graduate work in Economics at the University of Chicago. He expects to receive his A. M. degree in June 1932.

WAYNE SHUMAKER. Appointed to study Comparative Literature at Harvard University, with especial emphasis on the literature of England, France and Germany.

JOSEPH TAYLOR. Appointed to do graduate work at the London School of Economics and Political Science.

LUCILLE WADE. Appointed to study Physiological Chemistry and Bacteriology with emphasis on Immunology and Serology at Johns Hopkins University. Will probably receive A. M. degree in June, 1932.

CLASS OF 1932

OTTO BEHRENS. Appointed to study Organic Chemistry either at the University of Illinois, Harvard or Johns Hopkins.

MARJORIE BUNDY. Appointed to study in the field of History and Literature, particularly the problem of the effect the political career of Disraeli, the statesman, had on the literary career of Disraeli, the novelist. She will study at Newnham College, Cambridge.

ELIZABETH DEWEES. Appointed to do graduate work in Latin at the University of Pennsylvania.

LYMAN DUNCAN. Appointed to study Economics in the field of International Finance at the London School of Economics.

ROBERT KENDALL. Appointed to study Physics, the place to be determined later.

GENEVIEVE LARMORE. Appointed to study English at Oxford University.

VERNON LOESCHER. Appointed to study Philosophy at Boston University.

GILBERT WOODSIDE. Appointed to study Zoology either at Harvard University or Johns Hopkins.

Current Rector Scholars

■ Class of 2015

Brooke Addison '15
Louisville

Kieron Clark '15
North Manchester, Ind.

Kevin Courtade '15
Jenison, Mich.

Elizabeth Dilbone '15
Newark, Ohio

Kunyu Fang '15
San Diego, Calif.

Clare Hasken '15
Richmond, Ill.

Nicholas Hebebrand '15
Palatine, Ill.

Giles (Chip) Locke '15
Rochester, Minn.

Colleen McArdle '15
Fort Wayne, Ind.

Madeline Perry '15
Cincinnati

Haley Pratt '15
Fishers, Ind.

Adam Thacker '15
Minnetonka, Minn.

Julie Wittwer '15
Grosse Pointe, Mich.

■ Class of 2016

Megan Bailey '16
Columbus, Ind.

Timothy Brauer '16
Greenwood, Ind.

Sam Cole '16
Indianapolis

Page Daniels '16
Amboy, Ind.

Lauren Falotico '16
Arlington Heights, Ill.

Conner Gordon '16
Carmel, Ind.

Shannon Hall '16
Jacksonville, Fla.

Erin Horne '16
Arlington Heights, Ill.

Mark Johnson '16
Northbrook, Ill.

Risa (Lisa) Kanai '16
Kanagawa-Ken, Japan

Scott Lockwood '16
Carmel, Ind.

Olivia Muller '16
Carmel, Ind.

LeeAnn Sausser '16
Indianapolis

Hannah Short '16
Saint Robert, Mo.

Erin Tolar '16
Grove City, Ohio

Noelle Witwer '16
Bluffton, Ind.

■ Class of 2017

Joshua Clark '17
Indianapolis, Ind.

Danielle Dattilio '17
Lexington, Ky.

Kristin Hillman '17
Scottsdale, Ariz.

Carolyn Jedd '17
Chicago, Ill.

Stephen Johnson '17
Frankfort, Ill.

Midori Kawau '17
Yokohama, Japan

Lauren Saint '17
Indianapolis, Ind.

Olubusola Shifatu '17
Lagos, Nigeria

Peter Steiner '17
Atlanta, Ga.

Amanda Straw '17
Chicago, Ill.

Amanda Weber '17
Cary, Ill.

■ Class of 2018

Jacob Bertucci '18
Valparaiso, Ind.

Mei Fujisato '18
Osaka, Japan

Colin Gleason '18
Santa Barbara, Calif.

Hussain Habib '18
Fort Wayne, Ind.

Benjamin Kusber '18
San Carlos, Calif.

Abigail Martin '18
Fort Thomas, Ky.

Leland Nelson '18
Fort Wayne, Ind.

Johnathan Pai '18
Saint Louis, Mo.

Samuel Showalter '18
Fort Wayne, Ind.

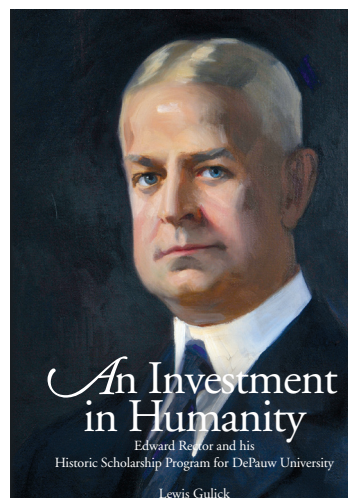
Madeleine Storm '18
Wheaton, Ill.

David Tekien '18
Chicago, Ill.

Michelle Wiebe '18
Elmwood Park, Ill.



The Class of 2014 Rectors were presented their Rector Scholar citations by the Rector faculty members at the annual Rector Senior Recognition Dinner.



An Investment in Humanity, the story of the Rectors and their historic scholarship written by Rector Scholar Lew Gulick '44, is available on The Rector Scholarship website. A printed copy can be ordered by calling the Eli's Bookstore, 765-653-0618.