



The Tenth Annual Student Recognition Day

*May 1, 2015
3:30 p.m.
University Ballroom*

*COLLEGE of NATURAL and
MATHEMATICAL SCIENCES*

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The Tenth Annual Student Recognition Day

- 3:30 p.m. **Welcome**
Dr. William R. LaCourse, Dean
- 3:35 p.m. **Special Award Sponsors**
Greg Simmons, Office of Institutional Advancement
- 3:40 p.m. **2015 Carl Weber Award for Excellence in Teaching**
Dr. Phillip Sokolove, Professor, Department of Biological Sciences
- 3:50 p.m. **Student Awards**
Dr. Yonathan Zohar, Department Chair
- Department of Chemistry and Biochemistry**
Dr. Zeev Rosenzweig, Department Chair
- Department of Physics**
Dr. Terrance Worchesky, Associate Chair
- Department of Mathematics and Statistics**
Dr. Nagaraj Neerchal, Department Chair
- Department of Biological Sciences**
Dr. Philip Farabaugh, Department Chair
- 4:30 p.m. **Special Group Recognition and Closing Remarks**
Dr. William R. LaCourse, Dean

Reception

Dean's Message

As Dean of the College of Natural and Mathematical Sciences, I welcome you to our tenth annual Student Recognition Day.

Student Recognition Day is a special event in the life of our College when we gather to celebrate and honor the achievements of our graduate and undergraduate students. We also use this opportunity to proudly recognize our exceptional faculty and staff for their invaluable service in teaching, mentoring and guiding our students. Family and friends play an important role in supporting the success of our students and deserve our thanks.

Many of the undergraduates receiving awards today will be graduating at the end of the semester and will go on to study at graduate or professional schools, or to begin rewarding jobs in the workplace or maybe even start their own businesses. While we will miss them when they leave us, we are confident that they received an exceptional educational experience here at UMBC. We look forward to hearing about their many successes in the future, and we are proud that they will become the next generation of alumni of this special place called UMBC, which is truly an Honors University in Maryland.



William R. LaCourse, Dean

Carl S. Weber Excellence in Teaching Award

Phillip Sokolove—2015 Award Winner



Phillip Sokolove is a professor in the Department of Biological Sciences. He attended the University of California, Berkeley for his B.A. in physics, obtained his Ph.D. at Harvard University in biophysics, and did his postdoctoral research in neurobiology and behavior at Stanford University. At UMBC, he has taught the introductory core course in biology alone almost every semester

since Fall 1996. Dr. Sokolove is always trying to learn new things about teaching and learning, and often participates in UMBC Faculty Development Workshops and Biology Department Teaching Circle meetings. The results of his science education research have been presented at regional and national conferences and published in peer-reviewed journals. In 2002, he received the UMS Regents' Faculty Award for Excellence in Teaching and an Outstanding Faculty Award from the Maryland Associate for Higher Education. In 2004, along with Dr. Jeff Leips, he was named a 2004-2005 National Academies Teaching Fellow in the Life Sciences. In 2006, he was selected as UMBC Presidential Teaching Professor.

Description and Sponsor of Award

Carl S. Weber Excellence in Teaching Award

This award was established in 2006 in memory of Dr. Carl Weber, Assistant Professor Emeritus in the UMBC Department of Biological Sciences, as a tribute to his passion for classroom teaching. The annual award honors a faculty member at UMBC with exceptional dedication to teaching as demonstrated by his or her enthusiasm, up-to-date teaching materials, effective mentoring, community service in the teaching area, approachability, rigorous learning requirements, coherent teaching philosophy and inspirational teaching style.



Congratulations to the Graduating Class of May 2015

UMBC 2015 Valedictorian:

Michael Moubarek

Bachelor of Science in
Biochemistry & Molecular Biology



AWARDS Department of Chemistry and Biochemistry

Awards will be presented by Dr. Zeev Rosenzweig.

Top Senior Biochemistry Major

(Sponsored by the Department and the American Institute of Chemists Foundation—AICF)

Michael S. Moubarek

Top Senior Chemistry Major

(Sponsored by the Department and the American Institute of Chemists Foundation—AICF)

Rebecca L. Neubauer

2015 UNCF/Merck Undergraduate Science Research Scholarship Award

Danielle P. Tyson

Analytical Chemist Award; American Chemical Society (ACS)

Kori D. McDonald

Chesapeake Chemist; American Chemical Society (ACS), Maryland Chapter

Nathan J. Max

HYPERCUBE Scholar Award

Abigail C. Jackson

John Mittino Award for Service

Michael W. Lopresti

The Vitullo Award for Undergraduate Research

Timothy C. Southwick

The Donald Creighton Scholarship

Gregory C. Carter

AWARDS Department of Chemistry and Biochemistry (continued)

Student Recognition Award in Biochemistry

Oleg D. Makarevich

Student Recognition Award in Chemistry

Eric R. Wolfson

The Lise Satterfield Scholarship

Natalie M. Steenrod

William C. and Gregory O. Faith Scholarship

Quan Dao

Descriptions and Sponsors of Awards

American Institute of Chemists Foundation (AICF)

This foundation has awarded a student association membership, subscription to its peer-reviewed journal, and other benefits to an outstanding UMBC undergraduate chemist annually for many years.

UNCF/Merck Undergraduate Science Research Scholarship Award

This award is intended to help African American undergraduate students who are interested in science to further their science education and potentially pursue science and engineering careers. The UNCF/Merck awards provide tuition support and opportunities for research experience in a state-of-the-art research facility.

The American Chemical Society, Maryland Chapter

This chapter has presented an annual award with a copy of the Merck Index and other benefits to a top UMBC undergraduate chemist at its annual spring luncheon for many years. This group sponsors the **Chesapeake Chemist** award for another top UMBC undergraduate chemist this year.

HYPERCUBE

A computer modeling software company based in Gainesville, Florida, provides an annual award of software to a student planning an advanced degree in the chemical or life sciences.

Victor P. Vitullo and John R. Mittino Memorial Fund

This memorial endowment fund for the Department of Chemistry and Biochemistry at UMBC was created in 2001. This fund honors, in perpetuity, the memory and legacy of Dr. Victor P. Vitullo, Professor of Chemistry, and the memory of John R. Mittino, a Chemistry/Biochemistry student who worked in the department, who died in an untimely accident. In addition to providing annual awards to undergraduate and/or graduate students, the fund also supports seminar speakers and other appropriate educational activities in the fields of Chemistry and Biochemistry at UMBC.



Dr. Victor Vitullo

*No photo available for
John R. Mittino*

The Donald Creighton Scholarship



This award was established by Dr. Creighton's widow, Arlene, and his family and friends following Don's passing in 2006. Professor Creighton began working at UMBC in 1975 and his research was internationally recognized as being at the forefront of enzymology. This award supports a student studying chemistry or biochemistry.

The Lise Satterfield Scholarship

Beginning in 2002, UMBC Alumna Dr. Satterfield has provided an annual scholarship to an outstanding junior undergraduate chemistry student at UMBC who has research experience.

(Dr. Lise Satterfield, Class of '84, with husband, Peter B. Bell, Class of '74.)



The William C. and Gregory O. Faith Scholarship



*Left to right - Gregory and William Faith,
with parents, Florence and Lawrence Faith*

This memorial endowment was established in June 1992 by friends and family of William C. and Gregory O. Faith; twin brothers who graduated from UMBC in 1973. This fund supports annual scholarships that are awarded to students at UMBC who are interested in Biological Sciences, Chemistry and Biochemistry and who intend to pursue careers in health.

*The Biochemistry and Molecular Biology major at UMBC is jointly administered by the
Departments of Biological Sciences & Chemistry and Biochemistry.*

AWARDS Department of Physics

Awards will be presented by Dr. Terrance Worchesky.

Outstanding Graduating Senior in Physics

Graham Antoszewski

Amy M. Gottlieb

Ralph Kenneth L. Colmenar

Daniel Wesloh

Outstanding Graduate Teaching Assistant in Physics for Fall 2014

Brian J. Carroll

Outstanding Graduate Teaching Assistant in Physics for Spring 2015

Eugene R. Shanholtz

Outstanding Undergraduate Learning Assistant in Physics for Fall 2014

Grace H. Choi

Outstanding Undergraduate Learning Assistant in Physics for Spring 2015

Natalie S. DeNigris

AWARDS Department of Mathematics and Statistics

Awards will be presented by Dr. Nagaraj Neerchal.

Departmental Honors in Mathematics

Jessica Ortega

Outstanding Graduating Senior in Mathematics

Brandon M. Alexander	Mona Prakash
Graham Antoszewski	Daniel Wesloh
Jessica Ortega	

Outstanding Graduating Senior in Statistics

Yue Wang

Outstanding Graduate Research in Mathematics

Zana A. Coulibaly	Ting Wang
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Outstanding Graduate Teaching Assistant in the Field of Mathematics

Bryce M. Carey	Serap Tay-Stamoulas
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Outstanding Graduate Teaching Assistant in the Field of Statistics

Iris I. Gauran

CIRC Consultant of the Year

Sarah D. Swatski

Dr. Bimal and Mrs. Suchandra Sinha Endowment for Excellence in Statistics Research (Graduate)

Elias K. Al-Najjar

Dr. Bimal and Mrs. Suchandra Sinha Endowment for Excellence in Statistics (Undergrad)

Jane A. Pan

Math Gym Coach of the Year

Gloria L. Diederich

Pi Mu Epsilon

The National Mathematics Honor Society

Pi Mu Epsilon was founded in 1914 and the UMBC chapter was accepted into the PME fraternity in 1988. To join, a student must complete one course in real analysis and have at least a 3.00 GPA with a 3.25 Math GPA.

Joel Abraham

Musa Alam

Adam Byerly

Esther Gross

Elina Kharel

Rachel Linder

Lisa McPherson

Lindsay Mercer

Christian Wisner-Carlson

George Zhang

Descriptions and Sponsors of Awards

Mathematics and Statistics Departmental Honors

Undergraduates earning this distinction have completed all requirements for a major in mathematics or statistics with a GPA of 3.6 or higher and, in addition to the major requirements, have completed a senior thesis (MATH 497 or STAT 497) with a grade of A or B.

Dr. Bimal and Mrs. Suchandra Sinha Endowment for Excellence in Statistics

This award was established in 2012 by Dr. Bimal and Mrs. Suchandra Sinha. The funds provide annual awards to excellent undergraduate and graduate students studying statistics.



AWARDS Department of Biological Sciences

Awards will be presented by Dr. Philip Farabaugh.

Outstanding Graduating Senior in Biological Sciences

Sara Azeem	Noore-Sabah Khan
Nina R. Beri	Justin T. Lansinger
Yande Cheng	Harima Mian
Alexa Couture	Maeva S. Nyandjo
Lisa C. Dang	John K. Papanikos
Kenneth L. Dejarnette	Nicole Rangos
Danny Herrera	Salam Syed
Omar K. Khalid	Avraham Werdesheim

Outstanding Graduating Senior in Bioinformatics

Talmo D. Pereira

Departmental Service Award

Neha Basnet Sara M. Kifle

Faculty Award for Excellence in Bioinformatics

John F. Malloy

Faculty Award for Excellence in Biological Sciences

J. Megan Fredericks	Akua Nimarko
Julia W. Gao	Samantha N. Perry

Roger Michael Davis Endowed Scholarship

Skylar I. Dewees

John H., Sr. and Althea Griner Scholarship Fund for 2014-2015 (announced summer 2014)

Sylvia U. Edoigiawerie Rebekah L. Rashford

Thomas V. Marsho & Martin Schwartz Memorial Fund Award

Kritika Chugh	Neha Wali
Karl A. Graham-Yool	Aviva E. Zapinsky
Amelia N. Hallworth	

Sandoz Undergraduate Teaching Award

Eric Sanchez

Descriptions and Sponsors of Awards

Roger Michael Davis Endowed Award



Established in 1998 by Gloria Y. Davis Furrer in memory of her brother, Roger Michael Davis, who received his Ph.D. from UMBC in 1986 and taught Introductory Biology and Introductory Biology Lab at UMBC for many years. Annual scholarships are awarded to full-time undergraduate students at UMBC who demonstrate promise and intend to major in the Biological Sciences.

John H., Sr. and Althea Griner Scholarship Fund

Established in 1987, the fund was started by Dr. Winston Griner, Class of '74, in honor/memory of his parents. An award is given annually to outstanding first year undergraduates who are planning to pursue biological sciences as a major and who have completed their first year of school at UMBC with demonstrated commitment to the advancement of minorities in the sciences. *(Selection is made during the summer.)*

Thomas V. Marsho & Martin Schwartz Memorial Fund

Originally established in 1983 as the Thomas V. Marsho Memorial Fund, awards were to honor the memory of Dr. Thomas V. Marsho, Professor of Biological Sciences. In September 1994, the fund was revised and renamed to honor in perpetuity the memory and legacies Dr. Marsho and Dr. Martin Schwartz, Chairperson and Professor in Biological Sciences. In addition to annual awards to top undergraduate and graduate students, the fund supports seminar speakers and other appropriate educational activities in the field of Biological Sciences at UMBC.



Thomas Marsho



Martin Schwartz

Sandoz Undergraduate Teaching Award

Established in 2012, this undergraduate teaching award honors James Sandoz, who retired after serving as a lecturer and senior lecturer in the Department of Biological Sciences from 1984 through 2011. Mr. Sandoz taught many courses including Microbiology, Genetics Lab and Phage Hunters and remains one of the Department's most beloved instructors. This award will be given annually to an undergraduate teaching assistant (TA), usually a senior, who best demonstrates the hard work, positive spirit, and student caring exemplified by Jim Sandoz.



Phi Beta Kappa

Founded at the College of William and Mary in 1776, Phi Beta Kappa is the oldest and, by general agreement, the most prestigious academic honor society in the country. As potential candidates for the degree *magna cum laude* and having pursued a broad curriculum of liberal studies well beyond minimal institutional requirements, the following CNMS majors are among a select group of students invited to join Phi Beta Kappa by the Eta Chapter of Maryland.

Mariam Ahmed	Jeanice Hwang
Mehnaz Ali Khan	Hanna Jardel
Ariunzaya Amgalan	Noore-Sabah Khan
Graham Antoszewski	Burk Loeliger
Sara Azeem	Gaurav Luthria
Hye Min Baek	Nathan Max
Grace Choi	Lindsay Mercer
Hye Hyun Choi	Blossom Metevier
Lisa Dang	Danielle Moskovich
Phillip Dang	Jatin Narang
Julia Gao	Maeva Nyandjo
Brenda Gutierrez	Jessica Ortega
Sophia Haire	Ellebin Ortiz
Rachel Hartig	Nicole Rangos
Patricia Hoang	Catherine Rossbach
Chana Honick	Krizia-Ivana Udquim
Artaud Hourticolon-Retzler	Fen Zheng

ABOUT OUR AWARDEES

Award winners are listed in alphabetical order by last name.

Elias Al-Najjar - I will soon complete my Ph.D. in statistics; my research focuses on sufficient dimension reduction methodology for correlated observations. During my time at UMBC I have taught undergraduate students, worked as an NIH research assistant, and worked with professors of statistics and psychology.

Brandon Alexander - Brandon is a mathematics and computer science double major, physics minor, and Honors College Scholar. He will be attending the University of Maryland, College Park in the fall to pursue a Ph.D. in applied mathematics.

Graham Antoszewski - I have worked on research under Dr. Ruben Delgado regarding offshore wind energy and wind lidar technology as well as research regarding skeletal muscle atrophy under Dr. Bradford Peercy. In the fall, I will be attending graduate school at the University of Maryland, College Park.

Sara Azeem - I have established an organization on campus with the mission to help the homeless in Baltimore, volunteered in hospitals and community clinics, spent time with students with autism, TA'd over 100 students, and have been involved in several research projects at UMBC and NIH.

Neha Basnet - I have learned a great deal from being a biology student at UMBC. I am the current President of Biology Council of Majors and a Peer Health Educator on campus. I am taking time off to work and study before applying to medical school to be a physician.

Nina Beri - I am a member of the UMBC Honors College and will be graduating from UMBC with a double major in biological sciences and spanish. I will be completing a capstone project within the Department of Biological Sciences. In the coming year, I will be applying to grad school and hope to pursue a Ph.D.

Bryce Carey - *A statement of achievement was unavailable at the time of program publication.*

Brian Carroll - *A statement of achievement was unavailable at the time of program publication.*

Gregory Carter - In the fall, I will be attending Pennsylvania State University as a graduate student in the Biochemistry Department. My research interests are in using NMR to study structural biology. I hope to earn my Ph.D. and continue in academic research, ultimately becoming a professor.

ABOUT OUR AWARDEES *(continued)*

Yande Cheng - *A statement of achievement was unavailable at the time of program publication.*

Grace Choi - I am a double major in statistics and mathematics with minors in economics and biology. I am a member of the class of 2016 and planning on attending a Biostatistics Ph.D. program post graduation. Currently, I conduct research with Dr. Green and Dr. Park with the UBM program at UMBC.

Kritika Chugh - I plan on attending graduate school to earn my Ph.D. in neuroscience. I have presented my research at the Leadership Alliance National Symposium and ABRCMS. I am a URA Scholar, Meyerhoff Scholar, and a FASEB Travel Award recipient.

Ralph Kenneth Colmenar - I intend to get a Ph.D. in physics in the near future. After that, I plan on staying in academia and working as a research professor.

Zana Coulibaly - I am a Ph.D. candidate specializing in mathematical biology, statistics, scientific and high performance computing. My main goal as a researcher is to foster collaboration between mathematics and the life sciences by engaging in projects spanning experimental biology and mathematical modeling.

Alexa Couture - I am a biological sciences major and undergraduate researcher. I aspire to be a military physician.

Lisa Dang - I am a senior with a biology major and philosophy minor. I have been an undergraduate TA for BIOL141 for 5 semesters. I plan to go graduate school for the Doctorate of Physical Therapy program in the fall at George Washington University.

Quan Dao - Quan Dao is currently working under Dr. Songon An to investigate metabolons. In addition to his research, Quan is a member of the founding class of Phi Delta Epsilon and is a tutor for InstaEDU. He hopes to fulfill his lifelong dream of becoming a cardiovascular surgeon.

Kenneth Dejarnette - *A statement of achievement was unavailable at the time of program publication.*

Natalie DeNigris - Academic achievements include the Sherman STEM Scholarship and the Jacqueline Hrabowski Endowment Fund Scholarship. I am currently a physics major and plan to pursue a Ph.D. in biophysics and a M.A.T. in secondary education.

ABOUT OUR AWARDEES *(continued)*

Skylar Dewees - I am a junior studying biological sciences with a minor in chemistry. I am currently gaining research experience in Dr. Lasse Lindahl's lab. This summer I will participate in a research program at NIH. After graduation, I would like to pursue a Ph.D. in cell and molecular biology or biochemistry.

Gloria Diederich - I am a Dean's List student and was awarded the Michele P. Hayes Scholarship. I participated in an internship with Booz Allen Hamilton and worked on data projections as part of the modeling team. I received the 2014 Booz Allen Hamilton Intern Program High Five Award. One day, I aim to work for NASA.

Sylvia Edoigiawerie - I am a Meyerhoff Scholar and plan on pursuing an M.D./Ph.D.

J. Megan Fredericks - I've consistently been placed on the President's list, and have been inducted into several honors societies. I've conducted undergraduate research in neurobiology at NIMH. After completing my research I will apply to graduate programs with the intent of becoming a research professor of neurobiology.

Julia Gao - I will graduate in May with a B.S. in biological sciences and a minor in chemistry. I am currently conducting research to investigate the song patterns of the yellow warbler in a resident Jamaican population. In the fall, I will be attending the Ohio State University College of Veterinary Medicine.

Iris Gauran - Currently in my second year in the Ph.D. statistics program, I am working with Dr. DoHwan Park and Dr. Junyong Park on my dissertation encompassing longitudinal data analysis and high dimensional data. I have a forthcoming paper in the Communications and Statistics: Simulation and Computation journal.

Amy Gottlieb - Amy graduated in December 2014 with her bachelor's degree in physics, and minors in mathematics and astronomy. She is currently doing research at NASA Goddard Space Flight Center until the end of this summer. In the fall, she will attend the University of Florida to obtain her Ph.D. in astronomy.

Karl Andrew Graham-Yool - I have conducted research in Dr. Erin M. Green's lab for over a year in the field of genetics. My goal is to attend medical school and serve healthcare to the undeveloped world.

ABOUT OUR AWARDEES *(continued)*

Amelia Hallworth - I am a sophomore biology major in the Honors College with minors in math and computer science. Currently, I research the connections between the circadian clock and the immune system in Dr. Lu's lab. After graduation, I hope to get a Ph.D. and run a lab of my own.

Danny Herrera - It feels like a long journey is coming to an end. Just two years ago, I graduated from Montgomery Community College. Now, I am graduating from UMBC. There have been struggles as well as obstacles in my undergraduate career. But now I must face my greatest challenge, medical school.

Abigail Jackson - My research experiences include UMBC's Undergraduate Biology and Math Research Program (UBM) and the SURF program at NIST. I am a member of the UMBC Honors College and a tutor at the Chemistry Tutorial Center. This fall I will begin the chemistry Ph.D. program at Duke University.

Omar Khalid - I have published for research in HIV for the University of Maryland School of Medicine, Department of Neurology. I have achieved President's Honors Roll for 6 semesters. I am planning to apply for medical school in the 2016 cohort.

Noore-Sabah Khan - I am a biology and sociology major on the pre-med track with a particular interest in pediatrics. I am currently conducting research on cardiovascular disease risk in the Social Determinants of Health Inequity Lab. I presented at the 2014 American Psychosomatic Society conference in San Francisco.

Sara Kifle - While still a sophomore, Sara has tried to enjoy all that UMBC has to offer--be it in the lab with Dr. Erill or outside of it. Upon completing her undergraduate education at UMBC, she hopes pursue a Ph.D. in immunology or virology.

Justin Lansinger - I have maintained a 3.92 GPA throughout my time here at UMBC, completed a summer internship at MedImmune, and acted as a TA in Genetics. I plan to graduate with a BA in Biological Sciences and a minor in Music. I also plan to apply to Medical School over the summer in order to matriculate in 2016.

Michael Lopresti - I plan to earn an M.D./Ph.D., and ultimately run a research lab, teach classes, and see patients.

Oleg Makarevich - I will be joining the University of Maryland's MSTP program to earn an M.D./Ph.D. The Ph.D. will focus on regenerative medicine.

ABOUT OUR AWARDEES *(continued)*

John Malloy - John conducted research under Dr. K. Omland for over two years studying the evolutionary relationships within New World Orioles and between Australasian Robins. Next year, he will teach at Archbishop Curley High School, while earning a Master's degree in teaching from Notre Dame College of Maryland.

Nathan Max - I am a member of Phi Beta Kappa, Phi Kappa Phi, Phi Theta Kappa and the Honors College. My current academic goal is to pursue a Fulbright Grant for a Masters of Science graduate program.

Kori McDonald - As a junior chemistry major, Kori currently works in the lab of Dr. Joel Liebman. She is a part of the Meyerhoff, HHMI, and NIBIB scholars programs. Last summer she participated in the EXROP program at LSU. After completing her B.S. in chemistry, she plans to matriculate into a Ph.D. program.

Harima Mian - I started out my undergrad in Montgomery College. At MC, I was in Phi Theta Kappa and received Dr. Harry Harden Jr. Student Academic Excellence Award. When I transferred to UMBC, I continued to make Dean's list, but also I was able to make President's list. I hope that one day I can become a dentist.

Michael Moubarek - Since November 2011, I have investigated the kinetics of prostate cancer and tested novel therapies in mice in the Bieberich Lab. This summer, I will research at the Massachusetts General Hospital. I hope to pursue an M.D./Ph.D. and teach at the collegiate level. Goldwater Scholar and Phi Beta Kappa.

Rebecca Neubauer - Rebecca worked in the Molecular Characterization and Analysis Complex for two years and presented research at URS, URCAD and the ASMS National Conference. She was awarded membership in Tau Sigma and Phi Kappa Phi honor societies. She will attend UNC Chapel Hill School of Law in the fall.

Akua Nimarko - I am a Meyerhoff, HHMI, and MARC U* STAR scholar. As a double major in biological sciences and psychology, I have worked in several laboratories, both on campus and at Columbia University and the University of Pennsylvania. In the fall, I plan to pursue a Ph.D. in neuroscience at Stanford University.

ABOUT OUR AWARDEES *(continued)*

Maeva Nyandjo - I am a member of the Honors College, Meyerhoff Scholars program and a recent Phi Beta Kappa inductee. I have interned at Harvard University, Johns Hopkins University and in Dr. Rosenberg's lab here at UMBC. I plan to obtain a medical degree from the University of Virginia over the next four years.

Jessica Ortega - Jessica has been inducted into the Eta Chapter of Phi Beta Kappa. She also earned Departmental Honors in Mathematics and has been on the President's List for multiple semesters. After graduation she plans to earn her master's degree in physician assistant studies.

Jane Pan - Jane is a junior majoring in mathematics and statistics. She is a Meyerhoff and URA Scholar and plans to utilize her research experience to support her efforts of pursuing a Ph.D. in applied mathematics. Her current research interests include image processing and computational biology.

John Papanikos - At the end of my sophomore year, I was awarded a URA scholarship to do organic synthesis in Dr. Paul Smith's laboratory. I am an undergraduate teacher's assistant for a chemistry lab and a learning assistant for organic chemistry. I plan to attend medical school after graduating from UMBC.

Talmo Pereira - Talmo is a Meyerhoff, HHMI and MARC Scholar. Goldwater Scholarship (Honorable Mention). He was a NSF Graduate Fellowship Program awardee and formerly a visiting student at MIT. He will Princeton University in the Fall to pursue a Ph.D. in neuroscience.

Samantha Perry - I received a research award and presented the research on nestling vocalizations at URCAD in April. I am a member of three honors societies including Phi Beta Kappa. I will graduate in May, Magna Cum Laude, and will attend the Virginia-Maryland College of Veterinary Medicine in August.

Mona Prakash - I am a double major in mathematics and financial economics, with a minor in computer science. I love working with big data. Upon graduation, I am pursuing my masters in economics and computation at Duke University, with a concentration in data science.

Nicole Rangos - I was a Teaching Assistant for Biology 141 for four semesters. I conducted summer research as part of the following programs, the Johns Hopkins Psychiatry Summer Research and Training (PSTAR) Program 2014, Miami Project to Cure Paralysis Summer Research Program 2013 and Maryland Psychiatric Research Center Research Assistant during Summer 2012.

ABOUT OUR AWARDEES *(continued)*

Rebekah Rashford - My career goals are to receive my Bachelors of Science degree in biological science, with a minor in creative writing. I am also planning to attend graduate school to receive my Ph.D. in a yet to be discovered field of biology.

Eric Sanchez - While serving in the U.S. Air Force, I attained an A.A. degree in Mandarin Chinese from the Defense Language Institute and became a nationally registered EMT. After UMBC graduation with biology B.A. in Spring '15, I will attend the Doctorate of Physical Therapy program at UM Baltimore, School of Medicine.

Eugene Shanholtz - Eugene was awarded a four year fellowship through the ORISE program at US Army Research Laboratory during undergraduate study. He graduated with a B.S. in physics from Towson University in 2012. Recently, he obtained an M.S. in physics from UMBC and is looking into either education or private industry careers.

Timothy Southwick - My academic achievements include completing research projects and taking the skills I learned and applying them to an internship at an environmental lab. I plan on working for a few years and later pursue a graduate degree. My career goals are to do analytical research.

Natalie Steenrod - I plan to earn a Ph.D. in neuroscience. Ultimately, I plan to study neurodegenerative diseases and teach at a research-focused university.

Sarah Swatski - I am a second year graduate student in applied mathematics pursuing research in mathematical biology and scientific computing with advisors Dr. Bradford Peercy and Dr. Matthias Gobbert. I have enjoyed giving software workshops and working on consulting projects as an RA for CIRC at UMBC.

Salam Syed - I have been working in Dr. Shari Waldstein's lab on research projects that focus on health outcomes in response to various social factors. In addition, I developed and lead the GED preparation program at Safe House of Hope, a shelter for victims of human trafficking and prostitution.

Serap Tay-Stamoulas - I am a Ph.D. candidate in the applied mathematics program. My research focuses on social dynamics and I am working with Dr. Muruhan Rathinam.

ABOUT OUR AWARDEES *(continued)*

Danielle Tyson - Danielle is a junior biochemistry & molecular biology major working in the lab of Dr. Zeev Rosenzweig. She is a part of the Meyerhoff, HHMI, and NIBIB scholars programs. Last summer she participated in the EXROP program at Yale. After graduation she plans to matriculate into an M.D./Ph.D. program.

Neha Wali - I am a freshman biochemistry and molecular biology major with aspirations to help people in need around the world and give back to the communities that have always supported me and made me who I am today. I would love to be a good humanitarian and assist the impoverished wherever I can.

Ting Wang - I am working with Dr. Muruhan Rathinam on the project "Sensitivity analysis of stochastic reaction networks" which concerns fast parametric sensitivity estimation. My career goal is to be an applied mathematician with a solid background in theoretical mathematics.

Yue Wang - *A statement of achievement was unavailable at the time of program publication.*

Avraham Werdesheim - I am a member of Phi Beta Kappa and am graduating from the Honors College. I have been on the Presidents list every semester. I am a Teachers Assistant and Learning Assistant. I recently received my 5 years of service award at the Pikesville Vol. Fire Co. I am currently applying to Medical School and aspire to join Doctors Without Borders.

Daniel Wesloh - I graduate this semester and plan to attend Penn State next year pursuing a Ph.D. in meteorology.

Eric Wolfson - In the past four years, I have had the privilege and honor of being named a Scholar of Science in Chemical Industry by the American Chemical Society, employed as an intern for a major chemical company, and challenged as a researcher. I will proudly bring my skills to wherever I can do the most good.

Aviva Zapinsky - I have worked in a molecular biology research lab for the past year and a half doing independent research on ribosomes and cellular stress. I am a URA scholar, and a member of the honors college. My future plans include medical school, and I would like to specialize in obstetrics and gynecology.

SAVE THE DATES

Eighteenth Annual CNMS

Summer Undergraduate Research Fest

Wednesday, August 5, 2015

University Center, Ballroom, 3rd Floor

surf.umbc.edu

Eighteenth Annual Undergraduate Research Symposium in the Chemical and Biological Science

Saturday, October 3, 2015

University Center, Ballroom, 3rd Floor

cnmssymposium.umbc.edu

A Look Ahead XIX

Explorations in Transformative Research

April 20, 2016

alookahead.umbc.edu

Twentieth Annual Undergraduate Research Creative Achievement Day (URCAD)

Wednesday, April 27, 2016

umbc.edu/urcad

Eleventh Annual CNMS Student Recognition Day

Friday, May 6, 2016

cnms.umbc.edu

Please visit the CNMS website for updates about our
programs, activities, faculty, students and staff:

cnms.umbc.edu