Greetings Alumni!

The 2017-2018 academic year is off to a great start, and we want to share with you some of the exciting news from the department over the past year. We hope you will enjoy reading about the accomplishments of our faculty, staff, students, and alumni.

As always, thank you to all who have given to Notre Dame in the past. If you would like to include Notre Dame in your giving, undergraduate alumni can follow this link, and graduate alumni can follow this link. Thank you for supporting the efforts of the department and the University!

Lastly, if you would like additional information on the stories in this newsletter, please visit the departmental website or Facebook page. As always, if you have news or feedback, we would love to hear from you.

Faculty & Staff News

We are pleased to announce the addition of three new faculty members to our department. **Brian Blagg**, Charles Huisking Professor, is the new director of the Warren Family Research Center for Drug Discovery and Development. His research focuses on Hsp90 heat shock proteins and their role in cancer progression. **Arnaldo Serrano** joins as an assistant professor who will be developing nonlinear and multidimensional spectroscopies. **Emily Tsui** joins as an assistant professor designing new catalysts based on bioinorganic, organometallic, and nanomaterials chemistry.

Rich Taylor is the 2017 recipient of the Notre Dame Faculty Award. This award recognizes his lasting contributions to academic life while enhancing the University's research profile. Taylor has also been appointed the Interim Director of Notre Dame California.

**Paul Bohn** is the winner of the 2017 ACS Award in Electrochemistry. This prestigious award recognizes a scientist who has advanced the field of electrochemical analysis. Bohn was selected for his work that pioneered the extension of traditional electrochemical science into new areas.
like nanofluidic electrochemistry in low-dimensional structures, atomic-scale conductors, and electrochemically tunable surfaces.

Norm Dovichi is the 2017 recipient of the Notre Dame Research Achievement Award. This award honors his work in analytical chemistry, particularly his development and validation of high throughput DNA sequencers that were ultimately licensed and commercialized and that became the primary instruments used in the Human Genome Project.

Congratulations are in order for Steve Corcelli on his promotion to full professor, Haifeng Gao and Vlad Iluc on their promotions to associate professor with tenure, and Mijoon Lee on her promotion to associate professional specialist.

Dr. Tyvette Hilliard, a postdoctoral fellow in the lab of Sharon Stack, is the recipient of a highly-competitive 5 year K01 Research Career Development Award from the National Institutes of Health. Her work focuses on how maternal obesity may influence a child's susceptibility to ovarian cancer metastasis. She is the first ever K01 awardee from Notre Dame.

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**Research News**

The Hummon lab recently reported new results showing that refraining from ingesting sugar in the days leading up to treatment may increase the effectiveness of chemotherapy on colorectal cancer cells.

The Corcelli lab developed a new technique that allows for the better characterization of the water column that surrounds DNA molecules. This discovery has the potential to aid in the design of cancer treating and other pharmaceuticals.

The Baker lab reported how a donor liver T-cell receptor (TCR) can be used to target hepatitis C infected T-cells from the recipient. They are hoping to leverage this discovery to ultimately develop cancer immunotherapy treatments.

The Smith lab has engineered new dye molecules to target a specific enzyme in the influenza virus, thus enabling its detection with illumination by hand-held lamp or blue laser pointer. This test kit would allow for rapid, easy detection of the virus in home or health care settings.

Work in the Huber and Dovichi labs has shown a likely connection between small ubiquitin-like modifier (SUMO) proteins and heart defects.

The Lieberman lab's work on paper analytical devices (PADs) has garnered significant national and international attention. Over 60 media outlets have covered this work, including C&E News, International Business Time, Chemistry World, and the BBC.

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**Student & Alumni News**

Sarah Lum, a Ph.D. student in the Dovichi lab, won the Young Scientist Award at the International Symposium on Microscale Separations and Bioanalysis (MSB) 2017 conference. This international conference focuses on microscale separations and bioanalysis. Lum was selected from all presenters at the conference under age 35.
Enrico Speri, a Ph.D. student working with Shahriar Mobashery and Mayland Chang, received a 2017 Berry Family Foundation Graduate Fellowship to further his research on bacterial resistance to antibiotics.

Clyde Daly, a Ph.D. student in the Corcelli lab, received the 2017 Sister Jean Lenz, O.S.F. Student Leadership Award for his leadership in promoting a diverse, inclusive community on campus for all students. Daly is the founding co-President of the University of Notre Dame Black Graduate Student Association.

Sasha Padilla, a Ph.D. student in the Smith lab, received a 2017 NSF Graduate Research Fellowship.

Renee Bouley (Ph.D. ’17) was selected as the 2017 winner of the Scarborough Award of the American Chemical Society Division of Medicinal Chemistry. She was also the winner of the 2017 Shaheen Graduate School Award in Science.

Prof. Bill Wuest (B.S. ’03) is now a Georgia Research Alliance Distinguished Investigator at Emory University. Prof. Wuest also received a 2017 ACS Infectious Diseases Young Investigator Award.

Dr. Ann Weber (B.S. ’82) is the recipient of the 2017 Perkin Medal, widely acknowledged as the highest honor for an American industrial chemist. Dr. Weber is Senior Vice President of Drug Discovery at Kallyope, Inc.

Prof. Anne Villeneuve (B.S. ’81) was elected as a member of the National Academy of Sciences. Prof. Villeneuve is Professor of Genetics and Developmental Biology at Stanford University.

Over the past year, we have added 35 Ph.D. graduates, 11 M.S. graduates, and 32 B.S. graduates to the ranks of our alumni. Congratulations to the following students:

**Ph.D. Recipients**

**Chemistry**

Nameera Fatima Baig, Hyderabad, India (Paul Bohn)
Karen Angela Antonio Bailey, Loma Linda, CA (Zac Schultz)
Matthew Ryan Bailey, Westfield, IN (Zac Schultz)
Brittany Jean Barrett, Denver, CO (Vlad Iluc)  
Renee Bouley, Brighton, MI (Mayland Chang and Shahriar Mobashery)**
Danyal Jordan Floisand, South Jordan, UT (Steve Corcelli)
Robert William Graff, North Muskegon, MI (Haifeng Gao)
Michael John Grigalunas, Snellville, GA (Paul Helquist and Olaf Wiest)
Eric Carl Hansen, Hudsonville, MI (Olaf Wiest)
Danilo Hermo Jara Quinteros, Santiago, Chile (Prashant Kamat)
Paul Johns, Altoona, PA (Greg Hartland)
Julie Ann Kessler, Canton, CT (Vlad Iluc)
Erik Matthew Larsen, Kalamazoo, MI (Richard Taylor)**
Antonio Jacob Lepore, Doylestown, PA (Brandon Ashfeld)**
Zhongming Li, Changsha, China (Greg Hartland)
Yi Liu, Wuxi, China (Peter Burns)
Christopher James Meyer, Sheboygan, WI (Brandon Ashfeld)*
Nicholas Martin Myers, Ada, MI (Marya Lieberman)
Luis Geovani Perla, Brentwood, NY (Slavi Sevov)
Nicole Marie Schiavone, Pearl River, NY (Norm Dovichi)
Hubert King Turley IV, Memphis, TN (Jon Camden)
Sean P. Vilanova, Jackson, NJ (Vlad Iluc)*
Hao Wang, Sichuan, China (Zac Schultz)**
Xiaofeng Wang, Weihai, China (Haifeng Gao)
Yuanxing Wang, Hai’an, China (Masaru Kuno)
Laura Molly Woods, Auckland, New Zealand (Rich Taylor)
Wei Xu, Shanghai, China (Paul Bohn)
Seog Joon Yoon, Ulsan, Korea (Prashant Kamat)
Yimeng Zhao, Shanghai, China (Norm Dovichi)

**Biochemistry**

Emily O. Alberico, New Haven, IN (Holly Goodson)*
Kristofor Evin Glinton, Nassau, Bahamas (Francis Castellino)*
Xin Liu, Xi’an, China (Amanda Hummon)
Andrew Wyatt Schmudlach, Madison, WI (Norm Dovichi)**
Michael Wesbrook Staude, Cedar Rapids, IA (Jeff Peng)
Xiaojing Yan, Wuhan, China (Norm Dovichi)

**M.S. Recipients**

**Chemistry**

Neil Thomas Berkel, Troy, IL
Mengke Liu, Dangyang, China*
Jonathan Ryan McLachlan, Anniston, AL
Anselme Mucunguzi, Muhoza, Rwanda
Rosette L. Nkulu, Lubumbashi, Congo
Christopher Matthew Potter, Decatur, IL
Christian Talavera, Inglewood, CA**
Justin Daniel Vail, South Bend, IN*
Jonathan Andrew Walker, Elk City, OK*

**Biochemistry**

Cary Thompson Frick, Tacoma, WA**
Charissa Jo Quinlan, Fargo, ND*

**B.S. Recipients**

**Chemistry**

Brendan R. Emmons, *summa cum laude*, Rockville Center, NY
Matthew Joseph Goblirsch, magna cum laude, Elm Grove, WI
Laura Jeanne Housman, Elkhart, IN
Andrew Peter Latham, summa cum laude, Atherton, CA
Tyler Dale Metcalf, summa cum laude, Columbus, OH
Alexander Jeffrey Robinson, Mukwonago, WI
Theresa Ann Sagartz, Albuquerque, NM, posthumously
Michael Thomas Waldoch, Palatine, IL
Isaac Nathaniel Wappes, Fort Wayne, IN
Charday Alexis Ward, Plainfield, IL

Biochemistry
Luke Daniel Ballew, Colleyville, TX**
Danielle Akemi Boley, magna cum laude, Washington, IL
Seamus Brennan, cum laude, Indianapolis, IN**
Jennifer Marie Cimons, Eastchester, NY
Hannah Claire Dakin, magna cum laude, Arnaudville, LA
Shourik Dutta, cum laude, Palatine, IL
Brittany Janina Taylor Dymm, cum laude, Rochester, MI
Emma Elizabeth Frost, cum laude, Okemos, MI
William Charles Kasberg, Indianapolis, IN
Zhenyue (Maggie) Li, Beijing, China
Salvador Samuel Mascarenas IV, Idaho Falls, ID
Mary Nancy McDonald, Medway, MA
Luke Gerald McVeigh, magna cum laude, Holt, MI
Matthew Michael Onders, magna cum laude, Hudson, OH
Matthew James O’Neill, cum laude, Greensboro, NC
Daniel James Pape, cum laude, Cedar Rapids, IA
Kyke Anthony Planck, Pickerington, OH
Rachel Anne Sattler, Trenton, MI
Emily May Scire, magna cum laude, Dover, NH
Peter Anthony Stankiewicz, Deptford, NJ
Madeleine Nicole van Zuylen, Seattle, WA
Emily Hope Zion, cum laude, Northville, MI

*July 31, 2016 graduate
** January 8, 2017 graduate