On the Cover

“WINGS OF THOUGHT”

ENROLLMENT TSUNAMI
TOTAL UNDERGRADUATE CHEM/BIOC
ENROLLMENT GROWS 47% IN A DECADE!

UD CBC FACULTY CONTINUE
DOWN THE PATH OF EXCELLENCE
The University of Delaware's newest public work of art was dedicated Tuesday, May 8, to the institution's founder, the Rev. Francis Alison, and to faculty members who reflect the 18th century educator's "scholar-schoolmaster" ideal.

The 8-by-10 foot "Wings of Thought," created by acclaimed sculptor Richard Deutsch, is an open book, carved on the left side with depictions reflecting Alison's intellectual interests and the "Heck Reaction" in honor of UD faculty member and Nobel Laureate Richard Heck. A bronze quill pen stands next to the book.

The sculpture was commissioned to be the centerpiece of Mentors' Circle, between Hullihen Hall, Morris Library and Memorial Hall. The circle was created in 2001 to recognize UD faculty members who have been honored for excellence in teaching and advising by installing bricks bearing their names.

Now, with the addition of the sculpture, the circle itself has been reconstructed. The bricks were replaced by new ones engraved with the names of the faculty honorees, and granite pavers displaying the names of recipients of the Francis Alison Award, the University's highest faculty honor, also were installed around the sculpture.

As is the case with virtually all works of art, beauty (and appreciation) are in the eye of the beholder. Your Editor likes it! My only quibble involves the fact that the Heck Reaction engraved thereon is not identified as such.

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Photo by John L. Burmeister

HONOR ROLL OF GIVING TO THE DEPARTMENT

The Blue Hen Chemist is an annual magazine distributed by the Department of Chemistry and Biochemistry at the University of Delaware. Its purpose is to reach out to our extended CHEMIEIOF family members: current residents, alumni, friends, retirees and benefactors, both individual and corporate, to keep them abreast of the goings-on in the Department, to put old family members and new ones to touch with one another, and to give credit and thanks to the contributions of all.

The individual contributions of all, past and present, is the foundation that has built and continues to grow the Department and advance the mission that maintains our tradition of excellence in teaching and research. The financial support of the benefactors of the Department, whose generous contributions make it possible to recognize excellence among our students and faculty, gives the Department the opportunity to bring in world renowned speakers who further advance the knowledge base and skills of our faculty and students, and allow us to continue the mission of recruiting the best and brightest students and faculty to join us in our ever growing family.

Please, on behalf of the Department, accept these sincere thanks for the generosity of all. So, without further ado, we would like to express our sincere appreciation to the following companies and foundations for their unrestricted financial support of the Department during 2011-2012:

Amgen, Inc.
Covigen
Dow Corning
The Boeing Company
Exxon Mobile
Cengage Learning

The Department would like to acknowledge, with extreme gratitude, financial support from the following alumni, parents, faculty members, staff members, and friends during 2011-2012. Your support has always been important to us; however, in these stressed financial times, it is like manna from heaven!

Robert D. Bach, PhD
Robert P. Avis
David P. Arnott, PhD
Wayne M. Anderson
Trisha L. Acri, M.D.
Bernice E. Alshstrom
Joseph A. Albanese
Linda P. Anderson
Wayne M. Anderson
Christina H. Antonopoulos
David P. Arnot, PhD
Eric L. Asle
Robert P. Avins
Petras V. Avizanos
Robert D. Bach, PhD

Thank you all for your support and forbearance.

2012 is a year of transition and turbulence all around
considered a tax rather than a penalty. Oh yes, it is an election year and chances are that we will all be joined in contempot of Congress soon, for pushing discretionary spending (think NSF and NIH) over the proverbial financial cliff in fine bipartisan gridlock. We will all be joined in contempot of Congress soon, for pushing discretionary spending (think NSF and NIH) over the proverbial financial cliff in fine bipartisan gridlock. Academia is no exception; witness the unceremonious firing and rapid rehiring of UNA’s President by a governing board worried about her lack of “strategic dynamism” in the face of rapid transformations of the landscape of higher education (MOOC’s anyone?)

It is fitting, then, that change should also come to our Department. Also, in contrast to the chaotic happenings all around us, the transition we are effecting is orderly and much anticipated. Moreover, I am convinced that it will be a win-win scenario for all involved. After five years ‘in the corner office’, I am pleased to welcome Prof. Murray Johnston as the next Chair of the Department of Chemistry and Biochemistry. Needless to say, I am grateful for Murray’s willingness to take on this role, thereby consolidating our recent traditions of rotating the administration of our affairs among our current faculty. You can read about his plans and aspirations elsewhere in this newsletter (see p. 11). Being Chair is a learning experience, if nothing else. If there be one lesson I shall take away from the past five years, it might be this: People are very unlike molecules, but not therefore any less interesting or complicated. Whereas the chemist in me aims to uncover some inmutable truth about the behavior of inanimate matter (preferably containing chromium), in administration the best one can hope for is an approach to consensus and occasional satisfaction at an outcome. Of course, being surrounded by a group of bright and independent people, consensus can prove elusive, and success may be in the eye of the beholder. Thus, to maintain one’s equanimity, it helps to have some core beliefs to cling to. The rest is common sense and good forbearance. Once more, then, there follows a brief summary of events that transpired this past year.

The University of Delaware has lost a prominent chemist. After serving as Provost for the past three years, Prof. Tom Appel, Ph.D. ’81, has recently departed Newark to assume the position of Chancellor of the University of Hawaii at Manoa - Aloha ‘oe, Tom! However, several of our colleagues continue to serve the University in various administrative roles. Thus, Prof. Doug Doren continues as Associate Dean for the Natural Sciences and Prof. Charlie Riede is still
Prof. Colin Thorpe has been named the Willis F. Harrington Professor of Biochemistry

Our Faculty Continue on the Path of Excellence

Prof. Mary Watson (left) and Sandeep Patel (far right) win NSF CAREER Awards

Sue James was recognized a ‘HR Liaison of the Quarter’

for the construction of such an instrument. In another indication of the passing of time, we congratulate Prof. Sandeep Patel, who has been promoted to Associate Professor with tenure effective September 1, 2012. Gratifyingly, there have been no retirements or departures this year. We all like our jobs well enough to stick around for at least one more year!

As with the faculty, so it goes with the Department’s valued staff. During this past year, the Assistant to the Director of Graduate Studies and departmental webmaster, Jen Durkin, left the Department to pursue other opportunities. Senior Records Analyst Mike DiMauro had to submit to a double knee replacement and the prolonged recovery period eventually segued into retirement. Mike’s position is temporarily filled by Elaine Koroni. We were glad to welcome a new NMR Spectroscopist, Guangjin Hou, who will assist Steve Bai in the burgeoning NMR Facility. Another recent addition to our staff is Rick Bernard, a CITII, who will assist IT star Patrick McMahon with keeping the Department’s computers humming. Notable praise was bestowed upon one of our longest serving staff members, when Sue James was recognized a ‘HR Liaison of the Quarter’ in October 2011.

In our continuing campaign to preserve and improve the research infrastructure of the Department, we have recently turned our sights to the Mass Spectrometry Facility, which no longer served all the needs of its various constituencies. I am very happy to report the first major success of this effort. NSF has funded a ‘major research instrumentation’ (MRI) proposal for the acquisition of a new high resolution mass spectrometer; the PI for this proposal is Prof. Charlie Riedel and the proposal was largely organized and written by two of our entrepreneurial assistant professors, namely Profs. Don Watson and Joel Rosenthal, serving as co-PI’s. As usual, several of our colleagues have attracted honors and prizes during the past year. To wit, Prof. Colin Thorpe has been named the Willis F. Harrington Professor of Biochemistry, in recognition of his achievement as scholar and educator, thereby joining the small cadre of named professors in Chemistry and Biochemistry. Earlier in the year, our colleague Prof. Andrew Teplyakov received the 2012 Delaware ACS Section Award and Prof. Harold White was honored by McMaster University (in Hamilton, Ontario) with the Howard Barnows Award for Excellence in Undergraduate Teaching. Our young colleagues continue to gather accolades. Continuing in the footsteps of earlier recipients, this past year saw the bestowal of NSF CAREER Awards upon no less than two of our assistant professors, namely Profs. Mary Watson and Sandeep Patel. Finally, Prof. Joel Rosenthal has
It is always a pleasure on this occasion to acknowledge the support that the Department has received during the past year from its alumni and friends.

Recently, our Department has been notified of the receipt of a coveted 2012 DuPont Young Professor Grant.

Due to the generosity of our past graduates and friends, our Department has been able to attract some outstanding Associate Chairs.

We wish to express our gratitude to all of you who sent us donations throughout the year. Your tangible and ongoing support to our alma mater and to our current students are the beneficiaries of your magnanmous support.

Carolyn Cochrane Kent, M.S., ’66 and her husband John R. Hale, whose generous bequest will create graduate fellowships named after them. Carolyn was a student in the research group of Prof. John Burmeister. Once again, Mt. David Plastino, B.S., ’78, has made a substantial gift to the University, underscoring both the "David A. Plastino Scholar Program" at the University level and the "Alumni Undergraduate Research Fellows Program" in the Department of Chemistry and Biochemistry. This summer the 6th class of Fellows will conduct their research in faculty laboratories throughout the Department. As in other years, we have been fortunate and we are grateful.

Our current seven-tiered freshman chemistry program was rounded out by the donations of CHEM-100 Chemistry and the Human Environment (initiated in 78F by Prof. Conrad Trumbore (FAC 60-97), CHEM-105 General Chemistry (also initiated in 78E for nursing majors, by Prof. Tom Bell (FAC 78-80)) and CHEM-106 Elementary Bioorganic Chemistry (initiated in 81F, for nursing majors, by Prof. Colin Thorpe). The latter two courses, created at the request of the Nursing Department, represent disgusts of, respectively, CHEM-107/102 and CHEM-212/215 Elementary Organic Chemistry Plus CHEM-214/216 Elementary Biochemistry.

We wish to express our gratitude to all of you who sent us donations throughout the year. Your tangible and ongoing support to our alma mater and to our current students are the beneficiaries of your magnanmous support. Your spirit of giving back to your alma mater and to the generation of students coming after you is both inspiring and much appreciated. We shall be most grateful for your lasting support in the coming year.

When you read this, I shall have returned to the faculty. Looking back, it has been an honor and a privilege to serve as Chair of this fine Department. With any luck, I have done some good and no lasting harm! Reaching out to our alumni, wherever you are, has been one of the pleasures of the job.

I wish all of you nothing but the best in the years ahead.

With fond regards,

Klaus Theopold

Associate Chair
similar staff member for our burgeoning chemistry laboratories was secured several years ago with the hiring of Cruz (MA99) as Laboratory Coordinator. In like manner, we are about to hire a Senior Laboratory Technician; and Manager; Dave Nicolson, Laboratory Services staff: of this have been our hard-working unsung heroes and heroines in all our older alumni, I must hasten to point out enrollment data for 2010-2012, an anomaly that I find quite puzzling, in this era of instantaneous electronic communication.) Still, when I carried out a similar survey in 1998, our average Gen Chem lecture size was 85.

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The unsung heroes and heroines in all of this have been our hard-working, Laboratory Services staff: Dave Nicolson, Manager; Betsy Street. Senior Laboratory Technician; and Linda Bosswick, Records Technician. Desperately needed help for the Instrumental Methods and Physical Chemistry Laboratories was secured several years ago with the hiring of Federico (Fred) Cruz (MA99) as Laboratory Coordinator. In like manner, we are about to hire a similar staff member for our burgeoning organic chemistry laboratories. However, the burden of preparing the general chemistry laboratories has fallen on Dave, Betsy, and Linda, even though our total undergraduate enrollment has grown 47% in the past decade (2603 in 2001 → 3824 in 2011), with a concomitant increase in freshman course enrollments.

What of our majors’ programs? Although, as I have noted in the article describing this year’s Graduation Convocation, the mix of majors (BA/CHM, BA/XCE, BS/BIOC, BS/CHM) has varied considerably from year to year, the total has remained remarkably steady, placing us consistently in the upper 1-2% of all CHEM/BIOC baccalaureate programs in the country, in terms of the number of certified graduates produced each year. (The ACS has not yet published national graduation data for 2010-2012, an anomaly that I find quite puzzling, in this era of instantaneous electronic communication.)

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<td>3</td>
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<td>5</td>
<td>7</td>
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</tr>
<tr>
<td>Female:</td>
<td>18</td>
<td>35</td>
<td>17</td>
<td>28</td>
</tr>
<tr>
<td>Male:</td>
<td>13</td>
<td>40</td>
<td>21</td>
<td>31</td>
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<tr>
<td>Total:</td>
<td>35</td>
<td>75</td>
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There are, however, some discontinuities in the majors’ pipeline (data as of 5/12):

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The personnel of the University’s enrollment as a whole. Female majors constituted a majority of our majors’ population several years ago. Those of you who have “done the math” are undoubtedly aware that Burnaby and I have long since by-passed our normal retirement ages. Burnaby, although my chronological senior by five years, did not initiate his professorial career until 1967. This confounds many of my industrial friends, most of whom regard retirement as the Holy Grail of their lives. Beyond the obvious, simple reason that we love what we do, I have come to the conclusion that we are experiencing a phenomenon that has been replicated by my CHEM-111/112 classes. The senior and freshman entering class sizes are

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While the percentages of our African American and Hispanic majors continue to hover, unfortunately, around 5%, the percentage of our Asian majors (currently 16%) has experienced significant growth. The percentage of our female majors has remained remarkably steady, placing us consistently in the upper 1-2% of all CHEM/BIOC baccalaureate programs in the country, in terms of the number of certified graduates produced each year. (The ACS has not yet published national graduation data for 2010-2012, an anomaly that I find quite puzzling, in this era of instantaneous electronic communication.)

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Greetings! This is my first time writing a column for the Blue Hen Chemist, and I am very excited to share some great news regarding the graduate program, which continues to thrive and grow. We awarded 19 Masters and Doctoral degrees in the past academic year, and for the next one, we have a record-setting incoming class of 42 Ph.D. and 7 M.A./M.S. students. The Teaching Assistantship and Fellowship (TAF) Committee had a very difficult task selecting the new crop of graduate students out of more than 350 applicants. I would like to acknowledge the hard work and dedication of the members of the TAF committee—Prof. Sharon Rozovsky, Prof. Sandeep Patel, Prof. Karl Booksh, and Prof. Neal Zondlo—without whom this accomplishment would have never been possible. We also had a spectacular graduate recruiting weekend, attended by more than 30 prospective students, which was a true story of success because of the enthusiastic involvement of the current graduate students and the efforts of our graduate students coordinator Ms. Jen Durkin. Unfortunately, Ms. Durkin will not be participating in these activities in the upcoming year as she decided to embark on a different career path employing her graphic design skills. We wish her luck and continued success in her new position.

Following the tradition from recent years, we have had a tremendous year in terms of awards and recognitions gathered by our students. To begin with, I would highlight the accomplishments of two of the newest members of the Departmental graduate student body—Ms. Orella Saloha and Mr. Habte Ghebreemichael—who were awarded highly competitive University Scholars Fellowships for their first year of studies. Another high University honor—a University Graduate Fellowship—was bestowed upon Ms. Danielle McAtee, which will fund in part her studies in the upcoming academic year. Danielle will be a 4th year student in the laboratory of Prof. Mary Watson. At the Departmental level, it is my distinct pleasure to announce the winner of the 46th Glenn S. Skinner Award, Ms. Hua “Nancy” He—a 4th year Ph.D. student working under my supervision. The singular most coveted honor for graduate students in our Department has a cash value of $2500 and is presented every year to the “best” student in the Department, who is deemed by a committee of faculty from each Division to have contributed the most in all three areas—scholarship, teaching, and service. The award is named in honor of Prof. Glenn S. Skinner, an active faculty member in the Chemistry Department from 1928 to 1958. Nancy was surprised with the news at the 2012 Inorganic Colloquium given by Prof. Richard Eisenberg (U. Rochester, Editor-in-chief of Inorganic Chemistry (ACS)) on April 27. She received her bachelor’s degree from the University of Science and Technology of China; her graduate work at the University of Delaware has been extremely productive with 10 lead-author publications and numerous accolades.

Nancy also needs to be congratulated for being this year’s recipient of the 5th annual Trofimenko Memorial Prize. The award recognizes a current graduate student in the Department who has distinguished themselves as the most creative synthetic inorganic chemist. The $500 Prize was established in 2007 to commemorate Dr. Swiatoslaw ‘Jerry’ Trofimenko, a renowned chemist from DuPont, who is also known for the creation of the polypropylenyl ("spiderman") family of ligands. Following his retirement from the industry, Dr. Trofimenko spent the final decade of his productive research career as a visiting scholar in the group of Prof. Klaus Theopold. There were three winners of the 30th annual Elizabeth Dyer Excellence-in-Teaching Award this year—Samantha Brannick, Jia-Ming Lin, and Christopher Suiter. The Dyer Award honors the memory of the late Prof. Elizabeth Dyer, a member of the chemistry and biochemistry faculty from 1933-1971. The award has been given since 1983, and recognizes graduate students who have been exemplary teaching assistants during the past academic year. A few words about each of the three awardees:

Ms. Brannick received her bachelor’s degree from West Virginia University and is currently pursuing a doctorate, working with Prof. Tatyana Polenova. Chris served as a teaching assistant in general chemistry during fall 2010 and general chemistry during spring 2011. Michael Taylor, a graduate student mentored by Prof. Joseph Fox, was awarded the 2012 Hackley Award. This is the fourth time that the Department has presented the Bennie E. Hackley, Jr. Award for Excellence in Research. The award honors the career of Dr. Hackley, who in 1977 became UD’s first African American doctoral graduate in chemistry. His 57-year career at the U.S. Army Medical Research Institute for Chemical Defense in the Edgewood Laboratories at the Aberdeen (Md.) Proving Ground culminated in his becoming chief scientist there and earning him the federal government’s Exceptional Civilian Service Medal. The award, which consists of a certificate and a check for $2000, was presented before the University’s annual Richard F. Heck Lecture on May 11. Mike won the Daily Double this academic year by being selected as one of the 10 winners (nationally) of the Sigma-Aldrich Graduate Student Innovation Award. He will receive a cash prize of $1000, an iPad3 and an all-expense paid trip to the Sigma-Aldrich Graduate Student Innovation Award Symposium at the Aldrich campus in Milwaukee, Wisconsin, where he will also give a presentation on his research.

Awards, Accolades and Honorable Mentions
Silver Symposium

The 39th annual Joel L. Silver Award Symposium took place on May 16, 2012. The namesake of the Silver Award, the late Joel L. Silver, was a doctoral student in the laboratory of Prof. John Burmeister, who was tragically killed in a car accident in 1971, just a few months before earning his Ph.D. A fixture in the Department of Chemistry and Biochemistry since 1973, the Award Symposium commemorates Dr. Silver, and honors the hard work of all involved in graduate education in Chemistry and Biochemistry.

Nine students participated by giving 15 min research talks, followed by a 5 min session with questions and answers, both evaluated by an external jury composed of academic and industry representatives of each major research area. Dr. Derrick Swinton (Ph.D 2001), Lincoln University (analytical), Dr. Ya-Ming Hou, Jefferson University (biochemistry), Dr. Joseph M. Keane, Muhlenberg College (organics); Dr. Andrew Combs, Incyte Biopharmaceutical Company (organics); and Dr. Robert Opila, Materials Science and Engineering, UD (physical) judged the participants on the basis of research quality and presentation.

We extend our sincere appreciation to the jurors, who had a very difficult task of selecting the winners—Benjamin Israel (Prof. Thorpe) won the 1st place award for his presentation titled “Dissecting Catalysis: Probing the Redox Balance of the Quinincin Sulfhydryl Oxidase from Trypanosoma Brucei”. Jingmei Shen (Prof. Theopold) won the 2nd place award for her presentation titled “Low Valant Chromium α-Diimine Complexes as Catalysts and Mechanistic Models for Ethylene Trimerization”; and Aparna Sapra (Prof. Thorpe) won the 3rd place award for her presentation titled “New Work on Old Poisons”. The other six presenters, who also gave very interesting and informative talks were: Stephanie Schaefer (Prof. Thorpe and Prof. Rozovsky), Saul Pandey (Prof. Zandile), Ming Dong (Prof. Bahnsen), Tatsiana Hadzikimakaya (Prof. M. Watson), Hua He (Prof. Bovey), and Billy Bonza (Prof. Zhuang). I would like to acknowledge Prof. Brian Bahnsen, who graciously agreed to chair the event in my absence.

Professor Stiven Bobev

As students return to campus this fall and a new academic year begins, our Department Chair Klaus Theopold will turn over the reins of the Department to me. It has been said that the one constant in a university is change. While the average age of the student body always remains the same, undergraduate and graduate student populations completely turn over on a 4-5 year cycle. Similarly, leadership of the Department turns over every 5 years, which gives our faculty the opportunity to reflect on where we’ve come from over the tenure of our outgoing Chair and where we need to go in the future.

With Klaus at the helm, our Department has moved forward in many ways. As you will read elsewhere in the Blue Hen Chemist, enrollment in our undergraduate courses is burgeoning, the incoming graduate class is the largest ever, and our students at all levels continue to distinguish themselves in the broader scientific community. A cadre of new faculty hired under Klaus’ leadership has greatly expanded our research program, especially by moving us into emerging multidisciplinary areas. Chemistry and Biochemistry at the University of Delaware is vibrant and I want to thank Klaus for his efforts over the past 5 years. As we look to the future, there are many daunting challenges facing our Department. Budgets are stretched thin, competition for research funding is intense, and substantial upgrades to the Departmental infrastructure are needed simply to maintain, let alone enhance, our teaching and research missions. In the future, you will hear more of these challenges and our action to overcome them. In the meantime, I want to stress the importance that support from our alumni and friends plays in meeting these challenges. Chemistry and Biochemistry at UD is your Department, your academic home. Please consider our doors open to you anytime, whether you visit in person or electronically.

With best regards,

Murray Johnston

FROM THE CHAIR-ELECT:

Aparna Sapra (Prof. Thorpe) won the 3rd place award for her presentation titled “New Work on Old Poisons”. The other six presenters, who also gave very interesting and informative talks were: Stephanie Schaefer (Prof. Thorpe and Prof. Rozovsky), Saul Pandey (Prof. Zandile), Ming Dong (Prof. Bahnsen), Tatsiana Hadzikimakaya (Prof. M. Watson), Hua He (Prof. Bovey), and Billy Bonza (Prof. Zhuang). I would like to acknowledge Prof. Brian Bahnsen, who graciously agreed to chair the event in my absence.

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CAROLYN COCHRANE KENT (MS66) RECEIVES COLLEGE OF ARTS AND SCIENCES ALUMNI ACHIEVEMENT AWARD

Carolyn, who, along with Roy C. Timmer (MS66), was one of Your Editor’s first two M.S. students, was recognized at the College’s annual year-end ceremony on 5/16/12 for her excellence, dedication and support, along with three other outstanding A&S alumni. Carolyn graduated with a Bachelor of Science degree in chemistry from Bucknell University. Following the completion of her M.S. studies at the University of Delaware, she was hired by Armstrong World Industries, in Lancaster, PA, as their first female research chemist. She spent the next 30 years working for AWW in a variety of capacities, including research, government regulations, and human resources, eventually rising to leadership roles. Upon retirement, she has been involved in consulting, property management, and property renovation.

As a Lancaster, PA resident, Carolyn has been active in many organizations, including the Pilot Club of Lancaster, Meals on Wheels, Lancaster Conservancy, and the Boy Scouts of America, for whom she served as vice-president for exploring. She and her husband, John Hale, were named Conservationists of the Year by the Lancaster County Conservancy for establishing a nature preserve.

Carolyn and John have created the Carolyn C. Kent and John R. Hale Fellowship at the University of Delaware to provide graduate students in the Department of Chemistry and Biochemistry with the financial assistance they need to ensure success. Carolyn and John are members of the University’s Delaware Diamonds Society and the Carillon Circle.

Carolyn and John love most sports and actively support the Phillies, Orioles, Ravens (with Joe Flacco, of course) and the University of Delaware’s football team and its exceptional women’s basketball team.

Carolyn Cochrane Kent (MS66) Receives College of Arts and Sciences Alumni Achievement Award

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ACS Fellows

Two previous UD CHEM/BIOC faculty members were accorded this signal honor in 2011: P. Andrew Evans, Ph.D. (FAC 93-00), Professor of Chemistry, University of Liverpool; and Arnold L. Rheingold, Ph.D. (FAC 84-03), Professor of Chemistry, University of California, San Diego.

Prof. Sylien Bobev, Director of Graduate Studies, and his Asa, welcomed the addition of the newest potential solid state chemist to their family on 5/10/12. Their second son, Victor, weighed in at a robust 8 lbs., 4 ozs.

The faculty and staff of the CHEM/BIOC Department joined Prof. Junghuei Chen in mourning the death of his wife, Sue, on 9/29/11.

Prof. Karl Booksh has been appointed to two key national committees: Chair of the ACS Chemists with Disabilities Committee and as a member of the NSF’s Committee on Equal Opportunities in Science and Engineering. He is featured in a video produced by the ACS (“Chemists with Disabilities: We All Can”) that was selected as one of three winning entries in a competition sponsored by the Campaign for Disability Employment.

Frank J. Creggan, Ph.D. (Post-doc, Moore), W. Alton Jones Professor of Chemistry, Emeritus at Washington College, Chestertown, MD, was honored by the College for his 40 years of service by the establishment of the Frank J. Creggan Chair in Green Chemistry. As yet another example of the tight-knit, circular nature of the field of chemistry, Frank was a housemate of Dr. Michael Steminski (PT FAC) while both were graduate students at Fordham University in the 60’s.

Allen J. Denio, Ph.D. (FAC 78-79, 98-99) accepted the ACS Government Affairs Award on behalf of the Delaware Section at the Denver ACS Meeting last August.

Prof. Cecil Dybowski served as the President of the Eastern Analytical Symposium in 2012—the first spouse to be so honored. His wife, (the late) Dr. Mary Kaiser also served in this position.

Dennis H. Evans, Ph.D. (FAC 86-04), adjunct research professor at Purdue University, is the 2011 recipient of the ACS Division of Analytical Chemistry’s Award in Electrochemistry. His wife, Mary J. Wirth, Ph.D. (FAC 86-04) is Purdue’s W. Brooks Fortune Distinguished Professor of Analytical Chemistry.

Jean H. Futrell, Ph.D. (FAC 86-99, CHAIR 86-95, 96-97), Batelle Fellow at the Pacific Northwest National Laboratory, has been designated by the Board of Directors of the American Society for Mass Spectrometry as a pioneer in his field. As part of his honor, his mass spectrometry story will be included as part of the Chemical Heritage Foundation’s Oral History Program.

Susan James, who has been a staff member (Currently Administrative Assistant in the CHEM/BIOC Department for 37 years, was named Human Resources Liaison of the Quarter for the third quarter of 2011. Sue is married to Kenneth J. James (BS94, Ph.D.98), President and Director of Technology of Supercritical Fluid Technologies, Inc.

Julia Laskin, Ph.D. (Post-doc, Futrell), staff scientist at the Pacific Northwest National Laboratory, has been honored by the Women’s Chemists Committee of the ACS with one of its ten inaugural Rising Star Awards. The Award was presented to Julia at the San Diego ACS Meeting this past March. [see C&E News, 4/16/12, p.47]

It can safely be concluded that Prof. George Luther (JOINT FAC), Maxwell P. and Mildred H. Harrington Professor of Marine Studies, is a “hale faculty, well mer!” This past year, George was named a Fellow of the American Association for the Advancement of Science for his pioneering research in redox reactions, trace element speciation and development of novel in situ electrochemical methods.

Dr. Albert Matlack (ADJUNCT FAC) is certainly not “high on Coke,” as his letter published in C&E News (3/26/12, p.4) readily attests! He is, however, high on solar power, having organized a field trip last August to Dover’s Solar Park, a $50 million, 10-megawatt installation — the first such installation in Delaware.

The death of 1995 Chemistry Nobel Laureate Frank Sherwood (Sherry) Rowland (he of ozone depletion fame) on 3/10/12 stirred some very personal responses in our Department. Prof. Wallace H. McCordy (FAC 59-92) was a colleague of Sherry’s, when both were on the Princeton University faculty (52-56). Prof. Conrad N. Trumbore (FAC 60-97) was a good friend of Sherry’s, both professionally and personally. Sherry was instrumental in recruiting Conrad’s daughter, Susan Trumbore, Ph.D. (UD/BS/GEO/81), to teach and do research at the newly established Earth System Science Department at UC-Irvine, where she ultimately became Chair of the Department. She is now a Director of the Max-Planck Institute for Biogeochemistry in Jena, Germany, and was recently inducted into the U.S. National Academy of Sciences.

Prof. John Newberg, the newest member of our CHEM/BIOC faculty, and his wife were blessed with the birth of their third child (third son), John, Jr. (JJ) on 5/27/12. JJ was no tiny tot, weighing in at 8 lbs., 12 ozs.

Arnold L. Rheingold, Ph.D. (FAC 84-03), Professor of Chemistry at the University of California-San Diego, is the highly deserving recipient of the 2012 ACS Award for Distinguished Service in the Advancement of Inorganic Chemistry, sponsored by Strem Chemicals. Arnie’s collaborative x-ray diffraction studies with 4,200 different co-authors has produced a mind-boggling 2,100 papers, involving more than 9,000 crystal structures. Included in his list of co-authors are Nobel Laureates Roald Hoffmann, Richard R. Schrock, and our own Richard F. Heck (FAC 71-89). [see C&E News, 1/16/12, pp. 43-44]

Prof. Kate Scantlebury, Director of Secondary Education Programs in the College of Arts and Sciences, has also been named a Fellow of the American Association for the Advancement of Science. Kate, who recently completed her sixth stint as a guest researcher at the Center for Gender Research at Uppsala University, in Sweden, has been selected to receive a 2011 Distinguished Education Alumni Award from Purdue University/College of Education.

Prof. Donald L. Sparks (JOINT FAC), S. Hallock Daupont Chair in Soil and Environmental Chemistry, was recently elected an honorary member of the International Union of Soil Sciences. He was one of only six soil scientists so honored, and is only the 15th American so recognized since the IUSS was founded in 1924.

Sue James, 3rd Quarter HR Liaison

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Additional Faculty/Staff Activities and Awards

Fifty-Year ACS Members

Our previous and current UD CHEM/BIOC faculty member reached this significant milestone this past year: David L. Dalyemple, Ph.D. (FAC 68-74) and Michael Steminski, Ph.D. (PT FAC).

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Although the total attendance was somewhat smaller than usual, the spirit exhibited during the 17th CHEM/BIOC Graduation Convocation in Pearson Hall on 5/26/12 was just as high as ever. Continuing what has become a long-standing tradition, our speaker was a distinguished alumnus – Dr. Carol Renfrew Haft (BS84). Carol is a Senior Advisor for Cell Biology and an Associate Director for Grants Administration in the National Institute of Health’s National Institute of Diabetes, Digestive and Kidney Diseases in Bethesda, MD. We have always felt that advice and inspiration is more meaningful when it comes from someone who once walked in the graduates’ moccasins, and Carol did not disappoint. She was able to relate the various directions that her career’s path has taken her to her foundational experiences at the U of D., where she worked in the laboratory of Prof. Colin Thorpe, before doing her graduate work at Johns Hopkins University.

As the Friday evening Hooding Ceremony for doctorates has grown in significance and interest, their attendance at both Commencement and Convocation on Saturday has declined. Only 4 of the 13 Ph.D. graduates were “re-hooded” during this year’s Convocation. The drop in participation by the graduating seniors (only 41/53 attended) was unexpected. Nonetheless, with a total attendance of ca. 250, the subsequent reception in the Brown Laboratory lobby was as exuberant and joyful as its predecessors.

The placement pattern of our recent baccalaureate classes is patternless, for the most part, as is demonstrated by the following comparison:

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The only real “trend” to be found therein is the steady growth shown in the Undetermined category, reflecting the current sad state of our nation’s economy (also see C&E News, 11/7/2011, pp. 32-48. Note that the unemployment rate among ACS members has risen to 4.6% since the publication, last November, of the annual Employment Outlook by C&E News).

While not as dramatic, the mix of degrees awarded in recent years has also shown considerable variability, while the total number of degrees has changed very little:

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more Faculty/staff activities and awards

of Delaware) [Rozovsky]

Mr. Watson’s emphasis on writing in the various
courses that he has taught (CHEM-342
Introduction to Biochemistry, CHEM-465
Senior Seminar, CHEM-643 Intermediary
Metabolism, CHEM-647 Biochemical
2001 Todd M. Greco [CHEM-647] (BS03) – Honorable Mention
2005 Amanda Peters [CHEM-643] (BS95) – Honorable Mention
2007 Gretchen A. Ritter [CHEM-342] (BS08) – Honorable Mention
2007 Richard J. Karpowicz, Jr. [CHEM-643] (BS07) – Honorable Mention
2011 Nicholas Marze [CHEM-643] (BS CHEG/11) – Second Place
2012 Helen F. Schmidt [CHEM-342] (BS13) – First Place
Hala’s “other life” as Delaware’s preeminent
authority on dragonflies and damselflies has
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VISITING FACULTY, 2011 – 2012
Dr. Albert Matlack (Hercules Research Center-retired), CHEM-667 Industrial Chemistry, CHEM-481 Green Chemistry
Dr. Geoffrey Sanets, CHEM-321/322 Organic Chemistry
Dr. Paul Silver (Ph.D’73), CHEM-101 General Chemistry
Dr. Michael Stemniski (McKean High School-retired), CHEM-102 General Chemistry, CHEM-103/104 General Chemistry, CHEM-213/215 Elementary Organic Chemistry

POSTDOCTORAL RESEARCHERS AND FELLOWS, 2011-12:
Wakasaka Gamage Piyal Ariyanaanda [University of Delaware] (Rosenthal)
Vidyadhar Dairthankar [University of Delaware] (Rosenthal)
Ampopo Darzo [University of Florida] (Fox)
Lushanti Dr. Zoya Ariyanaanda [University of Delaware] (Grimes)
Jiazheng Diao [Chinese Academy of Sciences, China] (Zhuang)
Sheng-ping Guo [Chinese Academy of Sciences, China] (Bohev)
Guangming Hou [Wuhan Institute of Physics & Mathematics, China] (Polenova)
Snehaladinarayan Khatu [Indian Institute of Technology, India] (Rosenthal)
Yu Liu [University of Maryland, College Park] (Fox/Grimes)
Prantik Maity [University of Regensburg, Germany] (M. Watson)
Mark Mero [University of New Mexico] (Gundlach)
Sivakumar Paramasivam [University of Delaware] (Polenova)
Marion Schäfer [Universität Stuttgart, Germany] (Bohev)
Qun Xu [Northeastern University] (D. Watson)
Jiliang Zhang [City University of Hong Kong, China] (Bohev)

VISITING SCHOLARS, 2011-2012

Rasha Ahmed Mahmoud Hassan [Cairo University, Egypt] (Theopold)
Himangshu Mishra [Theopold]
John Young (Gelast, Inc.) [Theopold]

Additional Faculty/Staff Activities and Awards Continued from page 13

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directly attributed to Prof. Harold White. Hala’s emphasis on writing in the various
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Vidyadhar Dairthankar [University of Delaware] (Rosenthal)
Ampopo Darzo [University of Florida] (Fox)
Lushanti Dr. Zoya Ariyanaanda [University of Delaware] (Grimes)
Jiazheng Diao [Chinese Academy of Sciences, China] (Zhuang)
Sheng-ping Guo [Chinese Academy of Sciences, China] (Bohev)
Guangming Hou [Wuhan Institute of Physics & Mathematics, China] (Polenova)
Snehaladinarayan Khatu [Indian Institute of Technology, India] (Rosenthal)
Yu Liu [University of Maryland, College Park] (Fox/Grimes)
Prantik Maity [University of Regensburg, Germany] (M. Watson)
Mark Mero [University of New Mexico] (Gundlach)
Sivakumar Paramasivam [University of Delaware] (Polenova)
Marion Schäfer [Universität Stuttgart, Germany] (Bohev)
Qun Xu [Northeastern University] (D. Watson)
Jiliang Zhang [City University of Hong Kong, China] (Bohev)

VISITING SCHOLARS, 2011-2012

Rasha Ahmed Mahmoud Hassan [Cairo University, Egypt] (Theopold)
Himangshu Mishra [Theopold]
John Young (Gelast, Inc.) [Theopold]
2011-2012 UNDERGRADUATE AWARDS

NATIONAL AWARDS

Recipients
Megan E. Millman (BA/XCE/13)
Kammass R. Murphy (BA/XCE/12)

ACS/Hach Scientific Foundation Scholarship Awards

ASBMB Undergraduate Poster Competition, 2012 Experimental Biology Conference, San Diego, CA

Recipients
Michael A. Beirzer (BS/BIOC/12) 1st place
Soma Jobbagg (BS/BIOC/12) Honorable Mention
Christopher D. Wright (BS/BIOC/12) Honorable Mention

Timothy E. Gilpatrick (BS/BIOC/12)/Travel Award

ACS Division of Organic Chemistry-Summer Research Fellowship

Hilary A. Kercner (BS/Chem/13)

REGIONAL AWARDS

76th Intercollegiate Student Chemists Convention, Bloomsburg (PA) University, April 14, 2012

Recipients
Michael A. Beirzer (BS/BIOC/12), 1st place, Inorganic Division
Gregory M. Darone (BA/XCE/13) 2nd place, Inorganic Division

University of Maryland-Baltimore County 14th Annual Undergraduate Research Symposium in the Chemical and Biological Sciences

Recipients
Michael A. Beirzer (BS/BIOC/12), 1st place, Biochemistry Group 3a
Michael J. Ghidiu (BS/CHEM/12) 1st place, Chemistry Group 7a
Justin Teesdale (BS/Chem/13) 1st place, Chemistry Group 3a
Elizabeth A. Glinka (BS/CHEM/12) 2nd place, Biochemistry Group 1a
Kara L. Martin (BS/Chem/13) 2nd place, Chemistry Group 1b

UNIVERSITY AWARDS

Recipients
 spoilers

Blue Hen Team Sportsmanship Awards

Amanda B. Halstrom (BS/Chem/13) Women's Tennis
Laura L. Wermans (BS/BIOC/12) Rowing

Edward H. Rosenbery Undergraduate Writing Award

Helen E. Schmidt (BS/BIOC/13) 1st prize

2nd Annual Undergraduate Research and Service Celebratory Symposium

Gregory M. Darone (BA/XCE/13) 2nd place, Interdisciplinary Undergraduate Research in Sustainability Prize

SUMMER RESEARCH AWARDS

Recipient
Asem O. Abd El Khalik (BS/CHEM/14)
Gregory M. Darone (BA/XCE/13)
Andrew S. Dover (BS/CHEM, BA/XCE/14)
Michael S. Estephan (BS/CHEM/13)
Amanda B. Halstrom (BS/CHEM/13)
Zachary M. March (BS/CHEM/14)
Jennifer P. McCool (BS/CHEM/14)
Melissa G. Morris (BS/CHEM/13)
Monica G. Pirigyi (BS/BIOC/13)
Helen E. Schmidt (BS/BIOC/13)
Kathleen M. Seip (BS/BIOC/14)
Tyler Slooff (BS/CHED/14)
Carissa M. Smoot (BS/CHEM/13)
Nijing Su (BS/CHEM/13)
Justin Teesdale (BS/CHEM/13)

Source of Support
IMBRE
State of Delaware
David Plastino Fellowship
David Plastino Fellowship
ISE Lab Development
HHMI
HHMI
State of Delaware
HHMI
HHMI/EPSCoR
HHMI/IMBRE
David Plastino Fellowship
David Plastino Fellowship
David Plastino Fellowship
CHEM/BIOC Dept.

Mentor
Prof Donald Watson
Prof Svenin Boebe
Prof Joseph Fox
Prof Catherine Grimex
Prof. Meredith Wesolowski
Prof David Collby (CHGS)
Prof Neal Zondlo
Prof Mary Watson
Prof Neal Zondlo
Prof Eric Wommack (DBI)
Prof Michelle Parent (Med Tech)
Prof Svenin Boebe
Prof Joel Rosenhal
Prof Donald Watson
Prof Joel Rosenhal

SUMMER RESEARCH AWARDS (continued)

Recipient
Matthew J. Urban (BS/BIOC/14)
Matthew C. White (BS/BIOC/13)
Jocelyn Zajac (BS/BIOC/13)

Source of Support
HHMI
HHMI
HHMI

Mentor
Prof Zhuhao Zhou
Prof Charlie Riordan
Prof Melinda Duncan (BISC)

DEPARTMENT AWARDS

American Chemical Society Award in Chemistry

Michael J. Ghidiu (BS/CHEM/12)

Undergraduate Award in Inorganic Chemistry

American Institute of Chemists Award in Chemistry

Kevin Scott Beall Memorial Awards

Lukas Campolo (BS/BIOC/15)
Ethan G. Clark (BS/BIOC/15)

Wallace H. Carothers Scholarships

Alyssa M. Hull (BS/Chem/14)
Matthew J. Urban (BS/BIOC/14)

Frank W. Collins Undergraduate Awards in Biochemistry

Timothy E. Gilpatrick (BS/BIOC/12)
Soma Jobbagg (BS/BIOC/12)

Questaide Drake Scholarships

Hilary A. Kercner (BS/CHEM/13)
Sintia Krizman (BS/BIOC/13)
Monica G. Pirigyi (BS/BIOC/13)
Helen E. Schmidt (BS/BIOC/13)

Elizabeth Dyer Awards for Excellence in Chemistry and Biochemistry

Derek T. Ahneman (BS/CHEM/12)
Timothy E. Gilpatrick (BS/BIOC/12)

Hypercube Scholar Award

David M. Raciti (BS/BIOC/12)

Wallace H. McCurdy Jr. Undergraduate Award in Analytical Chemistry

Alexander G. M. Chau (BA/Chem/12)

American Institute of Chemists Award in Chemistry

William J. Cressman (BS/BIOC/12)
Soma Jobbagg (BS/BIOC/12)

James A. Moore Undergraduate Award in Organic Chemistry

Michael A. Beirzer (BS/BIOC/12)

C. Frank Shaw III Undergraduate Research Fellowship

Michael J. Ghidiu (BS/CHEM/12)

C. Frank Shaw III Undergraduate Inorganic Research Fellowship

Michael J. Ghidiu (BS/CHEM/12)

Carl A. von Frankenberg Undergraduate Awards in Chemistry Education

Nicholas J. Audette (BS/BIOC/12)
Kammass R. Murphy (BA/XCE/12)
The CHEM/BIOC Department hosted a dinner at the Courtyard Marriott on May 7th to announce the sixth class of Alumni Undergraduate Research Fellows. This program has been made possible by the generous financial support of Mr. David Plastino, who received his B.S. in Chemistry from the University of Delaware in 1978. Dave was one of Professor John Bulkowski’s first undergraduate research students, and it was this experience that provided his inspiration for underwriting this Program.

Dave is a man of many talents. He was a member of Delaware’s freshman basketball team and the Alpha Tau Omega fraternity. He received his M.B.A. degree from the University of Michigan in 1981, whereupon he joined the Goldman-Sachs investment firm, eventually rising to the position of Vice-President of Investments. He then moved to UBS (“You and Us—UBS”), where he became the Senior Vice-President of Investments prior to his retirement two years ago.

PICTURED WITH MR. PLASTINO ARE (LEFT TO RIGHT):

- Tyler Slouf (sophomore BS/CHEG major from Bear, DE, working with Prof. Svilen Bobev)
- Michael Estephan (junior BS/CHEM major from Downingtown, PA, working with Prof. Catherine Grimes)
- Jennifer McCord (sophomore Honors BS/CHEM major from Miami, FL, working with Prof. Neal Zondlo)
- Carissa Su (junior BS/CHEM major from Newark, DE (originally from China), working in the laboratory of Prof. Donald Watson)

The University of Michigan in 1981, whereupon he joined the Goldman-Sachs investment firm, eventually rising to the position of Vice-President of Investments. He then moved to UBS (“You and Us—UBS”), where he became the Senior Vice-President of Investments prior to his retirement two years ago.

Sixth Class of Alumni Undergraduate Research Fellows

Jennifer McCord (sophomore Honors BS/ CHEM major from Miami, FL, working with Prof. Neal Zondlo)

Carissa Su (junior BS/CHEM major from Newark, DE (originally from China), working in the laboratory of Prof. Donald Watson)
2012 B.S. CHEMISTRY GRADUATES

Derek T. Ahneman*  
Anupama B. Annegi  
Cory M. Anson  
Kevin K. Anton*  
Gregory N. Furlong  
Michael J. Ghidini*  
Lisa M. Thomann*  
Stephen F. Gonski (ENCH)  
Bryan J. Kessler  
Lauren McFadden  
Dorottya Miketa*  
Jonathan R. Sadler  
Elizabeth A. Glinka  
Matthew D. Thuan  
Jonathan H. Tomczak  
Chauntee D. Tyson  
Austin C. Whittington  

* Honors Degree

2012 M.A./M.S. GRADUATES

Mentor  
John Keh  
Charlie Riordan  
Mary Warner  
Neil Zondlo  
Karl Brookiah  
Thomas Beebe  

Baccalaureate Degree, School  
B.A., Skidmore College  
B.A. LaSalle University  
B.S., University of Delaware  
B.A., LaSalle University  
B.S., Peking University (PRC)  

GRADUATE OR PROFESSIONAL SCHOOL BOUND

Derek Ahneman, Princeton University (Ph.D. in Organic Chemistry), dahneman@princeton.edu;  
Cory Anson, Cornell University (M.S. in Chemical Engineering);  
Nicholas Audette, Carnegie Mellon University (Ph.D. in Molecular Biology), njaudette@gmail.com;  
Anna Bruno, George Mason University (Accelerated 2nd Degree in Nursing), annabruno430@gmail.com;  
Alexander Chaix, Tufts University (M.S. in Public Health and Biomedical Sciences), zigzag0711@gmail.com;  
William Cressman, University of Maryland, College Park (Ph.D. in Biochemistry);  
Timothy Gilpatrick, National Institutes of Health (Post- baccalaureate Research Program in the Laboratory of Dr. Michael Lenardo), tgilpat@gmail.com;  
Stephen Gonski, University of Alaska, Fairbanks (Ph.D. in Marine Studies), agrfmp@gcomcast.net;  
Alexa Hunter, University of Pittsburgh (Law School);  
Soma Jobbagy, University of Pittsburgh (M.D./Ph.D. Program);  
Jeffrey Lopez, University of Michigan (Ph.D. in Chemical Biology), lopejeff@umich.edu;  
David Raciti, Johns Hopkins University (Ph.D. in Chemical Biomolecular Engineering), blicha48@aol.com;  
Christopher Wright, Princeton University (Ph.D. in Molecular Biology), wrightcx@gmail.com;  

2012 PH.D. GRADUATES

Name  
Fang Dai  
Vidyadhar N. Daithankar  
Peter W. DeMatteo  
Wiley A. Hall  
Matthew D. Hassink  
Joseph P. Klem  
Marguerite K. McDonald  
James N. Plampin  
Elizabeth M. (Sedlack) Monillas  
Chomdau Sinthuvanch  
Michael T. Taylor  
Nicole E. Zander  
Yang Zhong  

Previous College Degree  
B.S., M.Sc., Nankai University (PRC)  
B.S., M.S., University of Pune (India)  
B.S., Ch.E., B.S., M.S., Lehigh University  
B.S. University of Maryland, College Park  
B.S. College of William & Mary  
B.S. University of the Sciences, Philadelphia  
B.S. University of the Ozarks  
B.S. University of South Carolina  
B.S. Fairfield University  
B.S. Chulalongkorn University (Thailand)  
B.S. Salisbury University  
B.A. Sr. Olaf College  
B.S. University of the Sciences and Technology (PRC)  

Dissertation Title  
Dioxyn Activation and NOx Degradation by Low Valent Chromium Complexes  
Mechanistic Insights into the Eri/ALR Family of Sulhydryl Oxidases  
Synthesis of Prazaines, Carbocycles, and Substituted Piperidines  
Characterization of Oligomers in Secondary Organic Aerosols Using Advanced Mass Spectrometry Techniques  
Methods for C-C Bond Construction and in Vivo Imaging Based on Strained Molecules  
Characterizing Ambient Nanoparticles through the Acquisition and Analysis of Fast Particle Measurements  
Post-Transcriptional MRNA Regulation in Neurons and Mechanisms of Post-Transcriptional RNA Modification in Vivo  
Examining the role of Helicity in Asymmetric Induction in Salen Catalysis  
Characterization of Human Paflet Activating Factor Aeryhydrolyase Type-II Oxidative Stress Response  
Designing Injectable ”Beta-Hairpin” Hydrogels for Applications in Cartilage Tissue Engineering  
Applications of Highly Reactive Carbenoids and Chiral Olefins in Stereselective Synthesis and Bioorthogonal Labeling Chemistry  
Electropor NanoFibers: Formation, Characterization and Evaluation for Nerve Tissue Engineering Applications  
Probing Small Molecule Solution Properties and Molecular Recognition Processes via Molecular Dynamics Simulations Incorporating Electrostatic Polarization  

Dissertation Chair  
Klaus Thopold  
Colin Thorpe  
Douglass Taber  
Murray Johnston  
Joseph Fox  
Murray Johnston  
Junghuei Chen  
Joseph Fox  
Joseph Fox  
Brian Bahnsen  
Joel Schneider  
Joseph Fox  
Joseph Fox  
Sanddeep Patel  
John Murray  
Thomas Beebe  

HEADED FOR INDUSTRY, ETC.

Mohammad Alicheid, SABIC Petrochemical Company (Research Chemist), moachielp@gmail.com;  
Kevin Anton, U.S. Army Coors of Engineers (2nd Lieutenant);  
Lara Dubuc, Wilmington Medical Examiner’s Office (Toxicologist), ldubuc9@gmail.com;  
Elizabeth Glinka, Medcom (Account Coordinator), elizabeth.a.glinka@gmail.com;  
Danielle Kolliosengen, Merck & Co. (Manufacturing Division);  
Stephen Lynn, Lancaster Laboratories (Pharmaceutical Testing), slynn300@gmail.com;  
Dorottya Miketa, DuPont Co. (Product Stewardship and Regulatory Affairs Analyst) dmiketa22@yahoo.com;  
Kammas Murphy, Ursuline Academy (Chemistry Teacher);  
Jonathan Sadler, U.S. Air Force (2nd Lieutenant, Space & Missiles) tmtinan@earthlink.net;  
Laura Wetman, Hospira (Pharmaceuticals (Research Chemist)) kicker27@mymway.com;  
Austin Whittington, Quest Pharmaceutical Services (Bioanalytical Chemist).
2012 GRADUATE STUDENT PLACEMENTS

Fang Dai, Penn State University (Post-doc, Prof. Donghai Wang, Department of Mechanical and Nuclear Engineering; dafang216@gmail.com);
Vidyadhar Daithankar, University of Delaware (Post-doc, Prof. Sharon Rozovsky);
Vidyadhar Daithankar, DuPont Co. (Associate Investigator, Department of Medicine);
Huy (Mike) Nguyen, University of Delaware (Ed. D. Program);
Jing Wang, National Center for Nanoscience and Technology, Beijing, China;
Marguerite McDonald, Drexel College of Medicine (Post-doc, Dr. Sean Ajit, Pharmacology and Physiology Department);
James Pampin, University of Kansas (Post-doc, Prof. Jeffrey Aube);
Mary Lou Marty, National Institute of Standards and Technology, Gaithersburg, MD (Post-doc, Dr. Seena Ajit, Pharmacology and Physiology Department);
Tatsiana Haidzina, DaVinci Co. (Associate Investigator, Department of Chemicals and Pharmaceutical Research and Development).

2012 ALUMNI NEWS

Fifty and Sixty-Year ACS Members

Six more UD graduates were added to this “good and faithful servant” roll this past year:
Donald L. Knauss (BS55, 60-year member), Donald E. Hoffman (PhD60, 60-year member), Robert D. Bach, Ph.D. (BA62, MA64), Arthur J. Coury, Ph.D. (BS62), Richard L. Hively (MS62, Ph.D66), and Donald M. Schoengold (PhD71). Heartiest congratulations to all! (see C&EN News, 49/9/12, pp. 44-57 for complete listing.)

ACS Fellows

Mary B. Price (PhD65), having retired from AKZO as Director of Research in 1992, is living in Pittsburgh, PA. She was extraordinary, especially in the area of research. She was designated the Leavy Family Professor of Chemistry in 2004 (the College’s first endowed chair position), having received SMC’s Faculty Scholarship Award in 1998. Your Editor had the pleasure of presenting the keynote lecture at the dedication of SMC’s Chory Chemistry Science Hall in 1994. mbp132@yahoo.com

Charles K. Skinner, D.D.S. (BS55), a son of (the late) Prof. Glenn S. Skinner (PhD56), having retired from Bayer after a 40-year career. He recently moved to Puerto Rico for the foreseeable future. ajchris61@aol.com

John E. Gardner, Jr., (PhD67) suffered a massive stroke three years ago, just before he retired from Bayer after a 40-year career. He now resides in a nursing home in Lancaster, PA. Periodically, in my role as the Editor of the Blue Hen Chemist, I receive truly moving statements from former students. I just received one from Horst F. Schran, Ph.D. (BS68), who is retiring, after 36 years, as Global Head of Oncology Clinical Research. Horst worked in the laboratory of (the late) Dr. Henry Russell, Ph.D. (BS68), who is retiring, after 36 years, as Global Head of Oncology Clinical Research. Horst was designated the Leavy Family Professor of Chemistry in 2004 (the College’s first endowed chair position), having received SMC’s Faculty Scholarship Award in 1998. Your Editor had the pleasure of presenting the keynote lecture at the dedication of SMC’s Chory Chemistry Science Hall in 1994. mbp132@yahoo.com

Eugene J. Volker, Ph.D.(70) has taken down his professorial shingle at Shepherd College, Shepherdstown, WV, where he has taught for 43 years at Shepherd University.

Charles W. Stanger, Jr. (PhD74) and his wife, Jo, have embarked on a “gypsy lifestyle,” and will be traveling the open road in their RV for the foreseeable future. jcstanger@gmail.com

Stephen L. Longacre, Ph.D. (BA75) has taken down his professorial shingle at Shepherd College, Shepherdstown, WV, where he has taught for 44 years at Shepherd University.

Charles W. Stanger, Jr. (PhD74) and his wife, Jo, have embarked on a “gypsy lifestyle,” and will be traveling the open road in their RV for the foreseeable future. jcstanger@gmail.com

Keith E. Senecal, M.D. (BS75) is an emergency room physician in the Chambersburg (PA) Hospital – real life ER! kseneck@gmail.com

Thomas A. Albright (PhD76) has also sent me a very introspective retrospective. He has...
formally retired from teaching, after a stellar career at the University of Houston. His book on Orbital Interactions has become a classic, and he is in the process of finishing the second edition. His transition from synthetic organic chemist, working with Prof. Ed Schweizer, to a leading theoretician in organometallic chemistry is described by Paul. Suffice it to say that it had to root in a course in group theory taught by (the late) Prof. Wayne P. Anderson, which culminated in Tom's post- doc with Nobel Laureate Roald Hoffmann at Cornell. tjd@brown.edu

Debra H. Norris, Ph.D. (BA77) has been appointed by ACS Dean George Watson to be Interim Associate Dean for the Arts. She is also the Associate Dean for Graduate Studies and Chair of the Department of Art Conservation. dhorris@udel.edu

Alan H. Ullman (PhD77) has retired, after 35+ years, from Procter and Gamble, where he was a Senior Scientist. Alan taught a short course on “Analytical Chemists in Industry” at the Eastern Analytical Symposium for many years. ahullman@gmail.com

Silvia S. Jurisicu, Ph.D. (BS78), Professor of Chemistry at the University of Missouri-Columbia, is the 2012 recipient of the Glenn T. Seaborg Award for Nuclear Chemistry, sponsored by the ACS Division of Nuclear Chemistry and Technology.

Eileen Chun Hing (BS82, President of ZOE Corporation, has been granted her first U.S. Patent (#8, 176, 318) for “Method and System for Providing a Customized Network.” Her son, Chan, will be a senior BACHEM major this coming year. eching@zoe.com

Lawrence M. Principé, Ph.D. (BS83), Professor of both Organic Chemistry and the History of Science at Johns Hopkins University, was the subject of an in-depth profile in C&EN News (2/29/11, p. 48).

Barbara Larsen (PhD84), Technology Fellow at DuPont’s Central Research and Development Department, was the recipient of the 2011 ACS Delaware Section Award.

Eric Broadway, Esq. (BA85) is now a chemistry teacher at the Lawrenceville (NJ) School. ebroday@aol.com

H. Drake Williams III, Ph.D. (BS87) is the Academic Dean and Professor of New Testament at the Tyndale Theological Seminary in Amsterdam, the Netherlands. drakedu@tyndale.nl

Richard O. Crossland, Jr. (BA88) started his executive coaching business three years ago, and, in each of those years, has won a major international award from his franchisor, Action Coach. [see Blue Hen Messenger, 19(2), 54-55(2011)]

Kristi Knick, Ph.D. (BS89), Deputy Dean of Engineering and Professor of Materials Science and Engineering at the University of Delaware, has been inducted into the American Institute for Medical and Biological Engineering College of Fellows, Class of 2012.

Jonathan T. Goodman, Esq. (PhD94) has forsaken the law firm where he had been practicing to go solo. His new venture, “Synthetic Intellectual Property” is intended to help people working in the chemical arts to plan, develop, and protect their intellectual property. jbg@synthesist.com

Thomas E. Prisinzano, Ph.D. (BS95) is an Associate Professor in the Department of Medicinal Chemistry at the University of Kansas. Lawrence. prisinz@ku.edu

Gautham Bhardari (PhD96) is a Managing Director of Infrastructure for Morgan Stanley, in New Delhi, India. gautham.bhardari@ morganstanley.com

A familiar name was found on the list of committee members who wrote the 2011 American Chemical Society Standardized General Chemistry Examination: William J. Donovan, Ph.D. (BS90), Associate Professor and Director of Freshman Chemistry at the University of Akron. Bill will serve as Chair of the Committee who will write the 2013 exam. wtdonovan@uakron.edu

Jennifer (Dettich) Jewson (PhD96) is a Manager, Acetyl Chemicals for LyondellBasell.

Andrew P. Charnik (BA97) is now associated with National Public Radio, in Washington, DC.

Michael J. Fevola, Ph.D. (BS98) is a Post-doctoral Research Chemist at the USDA-ARS Center for Grain and Animal Health Research in Manhattan, KS. djl382@yahoo.com

Stephen G. Broekhans, Ph.D. (BS94) is the first author on a paper co-authored by Nobel Laureate Roderick MacKinnon, at Rockefeller University (Science, 335, 436 (2012)).

David M. gentlemen (BS10) has completed his first year of study at Drexel University’s School of Medicine. eda10@udel.edu

Two of our most recent graduates, Nicholas J. Audette (BS12) and Anna M. Bruno (BS12) will literally put their pedals to the metal this summer in support of a worthy cause: Nick and Anna will be the first two cyclists to cross the U.S. from Portland, ME to Santa Barbara, CA for Bike and Build, an organization that provides competitive grants to local affordable housing groups across the country.

Hui (Mike) Diao (MS12) will embark on his EED. studies at the University of Delaware this coming fall. m.dao@udel.edu

ALUMNI NEWS

Sujaitha Bhatia, M.D., Ph.D. (BS99), in addition to being the Assistant Director for Undergraduate Studies in Biomedical Engineering at Harvard University, is also Professor of Chemical and Biological Engineering at Tufts University. sbhatia@seas.harvard.edu

Daniel R. Dries, Ph.D. (BS90) has joined the professorial ranks. Starting in September, he will be an Assistant Professor of Chemistry at Juniata College. ohioaddress@ohioaddress.com

Your Editor had, once again, the pleasure of introducing one of our outstanding young alumni as the keynote speaker at the 29th Annual Senior Thesis Symposium on 5/5/12. Joshua S. Figueroa, Ph.D. (BS90) is now an Assistant Professor of Chemistry at the University of California – Santa Diego. Josh has completed an impressive research trifecta: NSF CAREER Award (2010), Alfred P Sloan Research Fellow (2011), and a DOE CAREER Award (2012). jfiglor@ucsd.edu

Christopher D. Incarvito (MA00, PhD03) is the newly minted Director of Research Technology at Yale University, New Haven, CT. In this role, he oversees the research operations and infrastructure at Yale’s massive expansion campus, now known as West Campus. The site sits upon land formerly occupied by Bayer Pharmaceuticals. Its 20 buildings on 136 acres will eventually house six new research institutes. (Sounds a lot like our new STAR Campus (the 27 acres that once housed the now leveled Chrysler Assembly Plant.) Chris is married to Melissa (PhD04). They live with their two daughters, Samantha (3) and Julianna (21 months) in Rocky Hill, CT. chris.incarvito@yale.edu

Nicole C. Goodwin, Ph.D. (BS01) is a member of a Lexicon Pharmaceuticals research team highlighted in C&EN News (4/16/12, pp. 42-45) for its development of LIX2411, an orally administered drug candidate for type 2 diabetes. The molecule is a dual inhibitor of sodium-glucose transporters 1 and 2, also known as SGLT1 and SGLT2.

Michael Seebolt (BS01) is a Chemistry and Philosophy Teacher at the West Morris Regional High School, Mendham, NJ. milee023@wmrhs.org

Matthew J. Swisschandi, M.D. (BS02) has completed his residency in internal medicine at The George Washington University in DC. Next up: a two year clinical fellowship in infectious diseases at GWU. mjasig@hotmail.com

Jennifer B. Schneider (BS08) is enrolled in the Winterthur Graduate Program. jschunke@gmail.com

Xiaochun Zhang (PhD98), now with Boltm Scientific, also returned to campus on 10/19/11 to present a seminar on “Nano-scale and Molecular Study of Interfaces and Interactions on Surfaces: QCM-D and Langmuir Technologies.”

Kyle F. Davis (BS10), a doctoral candidate in the Department of Environmental Sciences at the University of Virginia, Charlottesville, has had his first co-authored paper on “Global Desertification: Drivers and Feedbacks” accepted by Advances in Water Resources. kfdavis15@gmail.com

David J. Meninger (BS10), a staff member for Young Life Baltimore County, is engaged in Christian ministry with students at local high schools, both in MD. dave.meninger@gmail.com

Charles F. Polusiti, Jr. (BS11) has completed his first year of study at Drexel University’s School of Medicine. cpolusiti@gmail.com

Donald J. Kottowski (BS07) is a Research Associate at the Potomac Bioscience Regeneron Pharmaceuticals, Inc., Tarrytown, NY. donald.kottowski@regeneron.com

Patrick J. Knerr (BS08), a doctoral candidate at the University of Illinois, Urbana-Champaign (your Editor’s first teaching venue, in 1963-64) returned to Newark, courtesy of a Pines Travel Award, on 9/26/11 to present a seminar on “Chemical and Enzymatic Approaches to Lantibiotic Syntheses.” Pat and his wife, Amy, were married in 11/11. pknerr@gmail.com
Sincere thanks to all the friends and alumni who have made generous contributions over the past year. Your gifts are used for many worthwhile purposes—to create professional development opportunities for our students, to support programs that enrich our curriculum, to fund special events that deepen our understanding of modern chemistry and to reward exemplary performances.

To make a gift to the Department of Chemistry and Biochemistry, please visit our online form at www.udel.edu/makegift. This form allows you to give via check or credit card. When you visit the form, please earmark your gift to the Department of Chemistry and Biochemistry or any of the funds listed below in the “Other Designation” box. To mail in a check, please indicate “Chemistry and Biochemistry” in the check’s memo section, and mail it to: University of Delaware, Office of Annual Giving, 83 E. Main St., Newark, DE 19711. For additional information and how to make a gift, please call the Development Office’s toll-free number at 866.535.4504 during normal business hours, or email annualgiving@udel.edu.

Alberta E. Edge Fund: This fund, created from the estate of Alberta E. Edge (BA35), underwrites the financial component of the awards given to outstanding senior (American Institute of Chemists Award, currently $500) and junior (American Chemical Society Award, currently $500) CHEM or BIOC majors, as well as the two senior Merck Index Awards (currently $250 each).

Breannie E. Hackley Jr. Award for Excellence in Research (2009): Given annually (currently $2,000) to a graduate student who has demonstrated excellence in research. It honors the memory of Dr. Breannie E. Hackley Jr. (UD Ph.D. ’57), who devoted his remarkable 57-year career at the Edgewood Chemical and Biological Center, Aberdeen, MD Proving Grounds to the development of medical antidotes to chemical warfare agents.


William A. Mosher Fund: supports fellowships for CHEM/BIOC graduate students. The fellowships honor Prof. William A. Mosher, who chaired the Department from 1945 to 1969.


Joseph H. Naggle Undergraduate Award in Physical Chemistry (1999) supports an annual award (currently $400) given to the graduating senior who best exemplifies scholarship in physical chemistry. The award honors Prof. Joseph H. Naggle, faculty member 1971-1998.

Joel Silver Award Fund [1973]: supports an annual award (currently $300) given in memory of Joel E. Silver, a graduate student killed in a traffic accident in his last doctoral year (1971), that recognizes excellent achievement in research, as well as a highly professional presentation of results at an annual symposium.

Glenn S. Skinner Award Fund [1968]: supports an annual award (currently $3K) to a graduate student in recognition of distinction in scholarship, research and service to the Department. The award honors Prof. Glenn S. Skinner, who was a chemistry faculty member from 1928 to 1958.

Tromfmeno Memorial Prize [2007]: This $500 award, in memory of Dr. Swiatłosław 'Jerry' Tromfemkenko, creator of the polyprazolylborate ligand system and visiting scholar in the Department from 1996 until his death in 2007, is given annually to a graduate student in the Department who has distinguished himself/herself in the area of ‘creative inorganic synthesis.’

Carl A. von Frankenberg Undergraduate Award in Chemistry Education [2005]: supports an annual award (currently $400) given to the graduating senior who best exemplifies scholarship in, and the practice of, chemistry education. The award honors Prof. Carl von Frankenberg, faculty member 1961-1997.
**PERSONAL INFORMATION FOR CHEM/BIOC RECORDS**

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Delaware Degree(s) [Date & Advisor] ____________________________________________________________

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Your Position ___________________________  Company Phone (__________) ________________________

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Other Degree(s) [Date(s) & School(s)] _____________________________________________________________

The Departmental Seminars and Colloquia schedules are located on the UD Departmental web page (www.udel.edu/chem).

Please use the remaining space to give information about yourself and your family. Do you have any questions or requests? Please let us know! _____________

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