

DEPAUL UNIVERSITY COLLEGE OF SCIENCE & HEALTH 2015 ANNUAL REPORT

In 2011, nine of DePaul University's nationally recognized science and health programs, along with five centers and institutes, networked under a new grouping—the College of Science and Health. The merger allows each unit to enjoy the benefits of integration between sciences, mathematics, and health studies in the pursuit of research, teaching, and service.

2015 CSH Annual Report

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A Letter from the Dean

A Letter from Gerald P. Koocher, PhD, ABPP

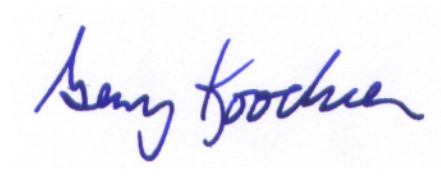
The past calendar year saw many significant accomplishments and opportunities for the College of Science and Health (CSH). Despite a decline in the high school age population nationally, our CSH enrollments have remained strong and we have met our enrollment projections for academic year 2015-2016. Interest in our degree programs and course offerings remain strong.

As we near the end of our 4th year as a distinct academic unit, CSH has done quite well – but we cannot rest on our laurels. Following a third round of college-level strategic planning we moved ahead with building a stronger applied mathematics program, and hope to launch a statistical consulting service soon. Our School of Nursing (SoN) faculty developed a plan to reduce the size of entering classes, while also admitting new students each quarter, rather than only twice a year. This plan will both grow the SoN and create a path for our own undergraduates who wish to progress quickly into the master's entry into nursing (MENP) program. We will soon launch a new undergraduate neuroscience program. Our physics program has fully implemented its studio teaching model. Our environmental sciences department has a new graduate degree under consideration. Both the psychology and biology departments are at work on new pathways to help their undergraduate majors advance to health-related graduate programs more quickly. We have also begun preliminary study on the viability of two new programs. Watch for more detail by late 2016.

We have continued to hone our brand as a college dedicated to helping students accelerate into scientific and health-oriented professions. One illustration of this: our signature Pathway Honors program enrollment has grown to 154. These highly qualified and motivated students pursue a health career – from freshman year through completion of a professional degree. A subset of them have taken advantage of the Early Opportunity Program with Rosalind Franklin University of Medical Sciences (RFUMS) that allows them to enter graduate school after three undergraduate years at DePaul. The first five students applied for an early decision at RFUMS in 2015 and all five were accepted: two will enter medical school, one into the doctor of physical therapy program, and one into the physician's assistant program. In fall of 2017, another student will enter the doctor of podiatric medicine program. Another 16 Pathways Honors students plan applications to professional programs this year, to RFUMS and beyond

including 11 applicants to the Early Opportunity Program. In addition, we have added two new articulation agreements that will allow our students to accelerate into the doctor of audiology program at Rush University and the chiropractic program at Palmer College in Iowa.

These details barely scratch the surface of our progress. I encourage you to review this report in detail, with special attention to the strong scholarly record of our faculty and our substantial engagement via education and public service by our faculty and students with the Chicagoland community. We have a lot to be proud of and a great deal to look forward to.



Gerald P. Koocher
Dean, College of Science and Health
April 20, 2016

CSH Annual Report Contributors

This 2015 Annual Report was prepared by Susan McMahon, PhD, and Abigail Ingram, and made possible by the efforts and contributions of the faculty and staff of the College of Science and Health.

Special thanks to

Erin Berkowitz,
Director of Advising and Student Services, CSH Advising and Student Services

Dominika Chafai,
Business Manager, College of Science and Health

Liam Heneghan,
Chair, Environmental Science and Studies

Gerald Koocher,
Dean, College of Science and Health

Naomi Leighton,
Environmental Science and Studies

Robert McCarthy,
Post-Award Coordinator, Office of Research Services

Susan McMahon,
Chair, Psychology Department, and incumbent Associate Dean for Research and Faculty Development

Lucinda Rapp,
Assistant to the Dean, College of Science and Health

Karen Reinbold,
Assistant Dean for Budget, College of Science and Health

Leadership

The College of Science and Health 2015 Leadership

The College of Science and Health is comprised of eight departments and schools and five centers. In 2015, under the direction of Dean Gerald Koocher, the college completed the first round of strategic planning to strengthen programs and facilitate future planning with the help of CSH leadership and thought leaders. The following faculty serve in leadership roles for DePaul's College of Science and Health.

CSH Leadership

Gerald P. Koocher, PhD, ABPP

Dean of the College of Science and Health

Phillip E. Funk, PhD

Associate Dean for External Relations

Richard F. Niedziela, PhD

Associate Dean for Instruction

Mona Shattell, PhD, RN, FAAN

Associate Dean for Research & Faculty Development

Margaret E. Silliker, PhD

Associate Dean for Graduate Studies

Departments and Centers

Biological Sciences

Chair John Dean, PhD

Chemistry

Chair Lihua Jin, PhD

Environmental Science & Studies

Chair Liam Heneghan, PhD

Health Sciences

Chair Craig Klugman, PhD

Mathematical Sciences

Chair Ahmed Zayed, PhD

Physics

Chair Jesus Pando, PhD

Psychology

Chair Susan McMahon, PhD

School of Nursing

Director William Cody, RN, PhD, CNE, FAAN

STEM Studies

Director Lynn Narasimhan, PhD

Quantitative Reasoning Center

Director David Jabon, PhD

Center for Community Research

Director Leonard Jason, PhD

Family & Community Services

Director Orson Morrison, PsyD

Institute for Nature and Culture

Director Liam Heneghan, PhD



Mission and Vision

Strategic Planning meetings with thought leaders in the College of Science and Health results in the 2015 adoption of the College's Mission and Vision

Mission

The College of Science and Health at DePaul University provides high quality, personalized, and accessible science and health education to a diverse student body, grounded in the values of St. Vincent de Paul. Our teaching and research advance knowledge in service to society.

Vision

We aspire to be a leading urban college of science and health with an inclusive environment that supports diverse people and ideas:

- Delivering rigorous and relevant science and health education programs
- Assuring every student with an emphasis in the sciences an authentic research experience
- Providing every student with an emphasis in health with an understanding of health disparities and best practices to address and advance health care in a global society
- Affording every student an opportunity to reinforce their learning through internships and community engagement
- Providing every student support in exploring and achieving their professional and career goals
- Supporting a faculty of inspiring, effective and innovative teachers
- Sustaining a faculty with the resources to produce impactful scholarship and become thought leaders in their field
- Encouraging faculty to share their knowledge and skills with the local and global community

Advisory Council

The Advisory Council, a group comprised of science and health professionals, is committed to the goal of educating students to the highest standards. Advisory Council members provide guidance and expertise to the college, including current insight on working in the natural sciences, mathematics, psychology, nursing, and health science fields.

*Many thanks to the 2015 College of Science and Health
Advisory Council Members:*

Patricia G. Becker, MBA (MBA '79)
Principal Consultant
PGBEC Consulting

James S. Burns, MBA (MBA '73)
President and CEO
AssureRx Health

Linda C. Degutis, DrPH, MSN (NSG BS '75)
Consultant

Therese Fitzpatrick, PhD, RN (NSG BS '75/
MS '84)
Principal, Healthcare Transformation Services
Philips Healthcare

Nancy L. Jones, MD (BIO BS '74)
Professor of Pathology
Chicago Medical School

Katherine J. Kim, MS, JD (CHE MS '97,
JD '04)
Principal
Spark IP Law

James Koziarz, PhD (CHE BS '71)
President and Chief Executive Officer
Rubicon Genomics, Inc.

Maria Kuzas, RN, MS
Vice Chairman of Executive Ethics Commission
State of Illinois

Thomas J. Murphy, PhD
Professor of Chemistry, Emeritus
DePaul U. Depts. of Chemistry & Env Sci

Dennis A. Schenborn (BIO BS '75)
Chief of Planning (retired)
Wisconsin Department Natural Resources

Elaine T. Schenborn, PhD (BIO BS '75)
Senior Project Manager, R&D
Promega

Stephen Sichak, Jr., MS (CHE BS '78/
MS '80)
Senior Vice President
Becton Dickinson

Robert P. Steele, JD (PSY BA '67, JD '77)
Chief Legal Counsel (retired)
Oscar Mayer - Kraft Foods Group

Maksim Zeldin, FSA, MAAA (MAT BS '07)
Senior Actuarial Associate
Allstate Insurance Company

(Parentheses Denote DePaul Degrees)

Chicago Connections

Representative examples of the College of Science and Health engagements with DePaul's home city

DePaul co-sponsored the regional SACNAS (Society for Advancement of Chicanos/Hispanics and Native Americans in Science) meeting held at Northwestern University on May 9, 2015.

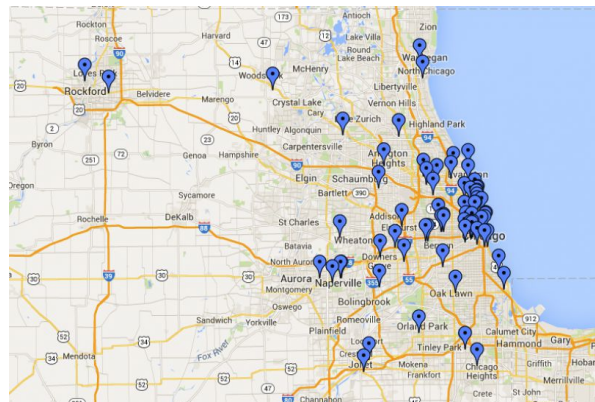
The DePaul Family and Community Services Center (FCS) served over 600, mostly low-income, urban, ethnic-minority children and their families during Fiscal Year 2015.

The Early Opportunity Program, launched in 2015, has facilitated guaranteed seats for five undergraduate CSH students at Rosalind Franklin University of Medicine and Science upon their successful completion of degree and program requirements. The program offers select CSH Pathways Honors Program students the opportunity for an early admission decision into Rosalind Franklin programs, including medicine, pharmacy, podiatry, physician assistant, pathologists' assistant, and physical therapy.

DePaul School of Nursing faculty and students at Rosalind Franklin are working in the Interprofessional Community Clinic (ICC), which provides free services in general medicine, podiatry, pharmacy, physical therapy, psychology, and ophthalmology to uninsured and underinsured patients. Under clinical faculty oversight, students are able to gain experience working in an interprofessional health care setting.

The School of Nursing offers clinical rotations at facilities throughout Chicago, including:

- Alexian Brothers Medical Center, Alexian Brothers Medical Center system
- Community Counseling Centers of Chicago
- Edward J. Hines, Jr., Veterans Administration Hospital
- Loyola University Medical Center, Loyola University Health Care System
- Lurie Children's Hospital, Northwestern Memorial HealthCare
- Lutheran General Hospital, Advocate Health Care
- Mt. Sinai Hospital, Sinai Health System
- Rehabilitation Institute of Chicago, Northwestern Memorial HealthCare
- St. Joseph Hospital, Resurrection Health
- Stone Institute of Psychiatry, Northwestern Memorial HealthCare
- University of Illinois at Chicago Medical Center, Illinois Medical District
- West Suburban Medical Center, Vanguard Health System



International Reach

College of Science and Health students and faculty make global connections through study abroad

DePaul Nursing [Study Abroad](#) in Prague: Students in the Masters Entry to Nursing Program explored the "City of a Hundred Spires" and learned about the international health care system as part of the study abroad program. Networking with Czech medical and nursing faculty, students, and administrative policy makers, participants learned about the contemporary changes in nursing science and practice in national and European contexts.



First year students at DePaul have the opportunity to travel to Peru with Christie Klimas, Environmental Science and Studies, for LSP 112: Chocolate, Coffee, Gold: Ethical Sourcing of food in a Global Marketplace. More about this trip can be found on page 29 of this report.

Additional short-term programs, allowing students to travel with DePaul professors, occur over December intercession, spring break, and summer. Past programs have been offered in India, Ireland, and Kenya.

Term program study abroad trips last for one quarter or longer; past destinations include Melbourne, Athens, and Santiago.

The Department of Biological Sciences

An intellectually stimulating research environment

The **Department of Biological Sciences** provides courses for biology majors, minors, and non-majors from all areas of DePaul University, including field experiences, opportunities for laboratory research, journal clubs, student organizations, research seminars, and other learning opportunities outside of the classroom.



Phil Funk, Associate Dean for External Relations completed the Harvard Institutes for Higher Education Graduate School of Education Management Development Program.

The University Research Council has approved Paid Leave applications for faculty members Timothy Sparkes, Jason Bystriansky, and John Dean.

Timothy Sparkes, PhD, received promotion to full professor.

William Gilliland, PhD, received promotion to associate professor with tenure.

Biological Sciences facilitates student organizations for community building; active clubs include:

- DePaul Life Sciences and Pre-Med Club, providing resources for individuals interested in post-graduate careers/studies in health fields
- Pre-Health Advising Committee Student Organization (PACSO) encompasses all pre-health students and aims to expose them to their career of interest, educate them about entrance into their respective graduate schools, prepare them for group interviews, and set meetings with graduate schools
- Biotechnology Club, which offers extracurricular activities to all students interested in biotechnology or modern biology
- SCI Club (Science Community Involvement) serves as a resource and club for all those students interested in bringing science to the greater community, particularly in the Chicago area
- Neuroscience Club (DPNC) with a mission to educate, expose, and engage the DePaul community in the multi-disciplinary field of Neuroscience
- Pre-Vet Club, an APVMA sponsored club which allows students interested in veterinary medicine and animal care to meet to discuss pertinent issues regarding veterinary school admissions, animal care topics, animal health, and the political and social aspects regarding these fields
- Pre-Pharmacy Club, with the mission to expose pharmacy as a career, equip members with the tools and knowledge necessary to be admitted to a pharmacy school, and to build lasting relationships
- Pre-Dental Club, with a mission to collaborate student-based efforts in order to inform members of the curriculum required to apply to dental schools, identify community service opportunities, and stay updated with advancements in dental-related research
- Pre-Optometry Club, which provides a community to students who wish to become future optometrists.



The Department of Chemistry

Rigorous training in the chemical sciences for undergraduate and graduate students

The Department of Chemistry offers rigorous training in the chemical sciences to its majors and general chemistry classes to students across the university. Students have the opportunity to work in research labs with faculty members as undergraduate and graduate students.

Paul Vadola and Caitlin Karver overhauled CHE235 labs in preparation for academic year 2015. Dr. Vadola also designed a new CHE486 course for Winter 2015 called Transition Metal Catalysis in Organic Synthesis.

Graham Griffin attended the Chemistry Collaborations, Workshops, and Communities of Scholars (cCWCS) Conference on Materials Chemistry and Technology and incorporated materials into future Materials Chemistry and Nanotech courses, as well as Physical Chemistry Lab and Gen Chem Lab.

Wendy Wolbach upgraded CHE 202, Statistical Analysis of Data, to an online-available format, and also developed current offerings CHE 204: Analytical Chemistry, CHE 480: Special Topic in Analytical Chemistry: Electroanalytical Techniques, and CHE 424: Group Theory as hybrid courses.

Cathrine Southern developed a hybrid version of Chemistry 130.

Jennifer Meyer completed DOTS Training to teach online and hybrid courses.

Tim French was awarded a collaborative instruction stipend with Sarah Read, WRD.

Alumnus Ansonia Badgett (2009) has been awarded a 2015 National Science Foundation Graduate Fellowship. During her undergraduate career, Ansonia was an LSAMP Research Scholar working with Quinetta Shelby and went on to a Ph.D. program in Chemistry at LSU. Ansonia is currently carrying out her dissertation research with Robin McCarley at LSU.

Alumnus Dana Klug (2013), former research student for Caitlin Karver, is working toward her PhD at Northeastern University. Dana was awarded a highly competitive ACS Medicinal Chemistry Fellowship.

The Department of Chemistry continues to offer a wide range of student events, including the American Chemical Society's Chemistry Day and an annual Meet & Greet with faculty, staff, advisors, and Career Center staff, among other events throughout the year.

Cathrine Southern and Justin Maresh were both promoted to associate professor with tenure.



The Department of Environmental Science and Studies

Engaging with Chicago's unique urban ecosystem

The Department of Environmental Science and Studies faculty challenge students with practical, hands-on field and classroom experiences.

Laboratorian and Professor Margaret Workman received the first Quality of Instruction Council Competitive Instructional Grant for Term and Part-time Faculty in December 2015.

Liam Heneghan was awarded the 2015 CSH Excellence in Teaching award.

The 2015 Academic High Altitude Conference and its pre-conference workshop was held at DePaul University June 23-26, 2015, hosted by Mark Potosnak, Environmental Science and Studies, and Bernhard Beck-Winchatz, STEM.

Mark Potosnak was promoted to associate professor with tenure.

Alumni Recognition

Many recent graduates have internships preparing them for further environmental work:

- Carla Ramirez Hernandez, 2015, received a Conservation and Land Management Internship for the Bureau of Land Management in Shoshone, Idaho.
- Cassie Shah, 2015, received an internship with Clarke Outdoor Services as a bio-assay research intern.
- Angela Cornejo, BA, 2015, is working with NeighborSpace, a non-profit land trust, as a paid intern.
- Erin Saal (BA 2015) takes part in an EPA ORISE Research Participation Program called Working Toward a Sustainable Future and has finished an internship with the Council on Environmental Quality.
- Cassandra Allen (BA) received an internship with FEMA.
- Julia Howard, BA, received an internship at Municipal Property Assessment Corporation (MPAC).
- Allison Williams, BA, 2015, is working for the BLM in southern California doing GIS work in the Mohave Desert for their Land Inventory Corps.
- Megan Hoff, 2015, works with the Bureau of Land Management as a Conservation and Land Management Intern in Burns, Oregon.
- Arianna Foster, BA, 2012, received her master's degree in Energy Policy & Climate from Johns Hopkins in June 2015.
- Alumnus Andy Chae has an urban agriculture business in Detroit; more information can be found at <http://www.dbusiness.com/November-December-2015/Higher-Yield/#.VnAmnGQrLwu>

The Department of Health Sciences

Teaching students to solve health-related problems with a team-based approach

The Department of Health Sciences draws on both the natural and social sciences to create one of the few undergraduate programs in the country incorporating the team-based approach that is quickly becoming the industry standard. DePaul's Department of Health Sciences teaches students to focus on the social and societal implications of health care, both for individuals and for the health of communities.

Health Sciences continues to be one of the university's fastest growing majors; now, there are two concentrations with various tracks for undergraduate students:

Biosciences Concentration

- Medical Track
- Pre-Nursing Track

Public Health Studies Concentration

- General Track
- Health Education Track
- Community Health Track
- Health Policy & Administration Track



Areas of scholarship in the department have expanded to include:

- Ethics education
- End-of-life issues
- Molecular mechanisms of herpes virus entry into cells (first step of infection)
- Public health ethics
- Secondary prevention needs of HIV-positive young men who have sex with men (MSM)
- Social determinants of health behavior among young men who have sex with men (MSM)

Eiron Cudaback gave a presentation entitled "Brain Inflammatory Response in Health and Disease" in May 2015 as part of the Biological Sciences Research Seminar.

Douglas Bruce received approval for paid research leave.



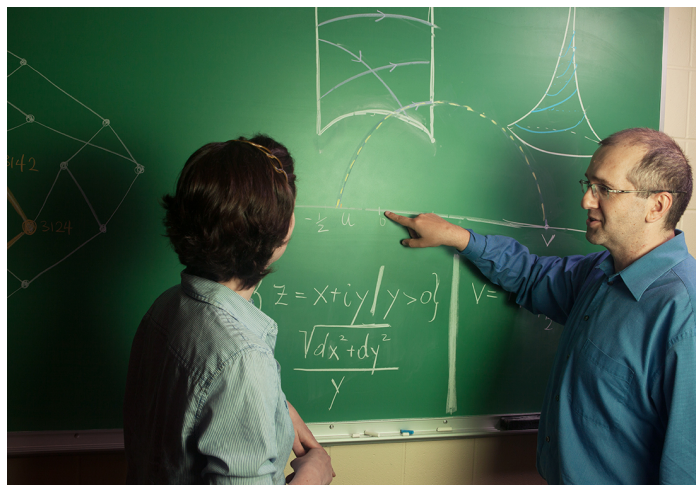
The Department of Mathematical Sciences

An active learning community

The Department of Mathematical Sciences offers bachelors and masters programs with courses in mathematics, statistics, and actuarial science, creating a research-rich environment for CSH students.

More than 25% of faculty in the Department of Mathematical Sciences receive external financial support. The department focuses on collaboration, illustrated in the receipt of Mathematics and Physical Sciences-Collaboration Grants for Mathematicians by Karl Liechty and Kyle Petersen.

Karl Liechty, PhD, Department of Mathematical Sciences, received the 2015 Gábor Szegő Award for his work in the asymptotic analysis of orthogonal polynomials arising in models from statistical mechanics.



In April 2015, the Department of Mathematical Sciences invited John Roe, PhD (Penn State University), for a presentation for faculty, staff, and students on “Growth, Geometry, and Sustainability,” exploring the way mathematicians interpret exponential growth and how these ideas can be applied to questions of ecological and economic sustainability.

Nicholas Ramsey was promoted to Associate Professor with Tenure in 2015.

Stefan Catoiu was granted a paid research leave for his research in 2015.

Andrew Carroll and Juan Hu completed DOTS training in preparation for developing and teaching online courses.

Alumnus Fiacha Heneghan was published in the premier journal for undergraduate mathematics, *College Math Journal*, with co-author T. Kyle Petersen with a paper entitled “*Power series for up-down min-max permutations.*”

School of Nursing

Academic rigor and hands-on experience

DePaul's **School of Nursing** offers innovative programs that emphasize excellence, health care research, leadership training and interpersonal skills development with a commitment to exceptional patient care.

Elizabeth Florez, PhD, RN, School of Nursing, won the LaRaza Mujeres Destacadas award in the Health category.

Karen Larimer was elected to the Rauner Family YMCA Board of Directors.

Christina Lattner and Matthew Sorenson were both selected as Edmond J. Safra Visiting Nurse Faculty at the Parkinson's Disease Foundation. The program is designed to improve nursing care in Parkinson's disease by training faculty leaders across the United States so they can, in turn, educate nursing students.

Paula Kagan wrote *Philosophies and Practices of Emancipatory Nursing: Social Justice as Praxis*, which was named an American Journal of Nursing Book of the Year Award winner in two categories: "History and Public Policy" and "Professional Issues."



The Sigma Theta Tau International Honor Society Chapter Key Award was awarded to the Zeta Sigma chapter at the 2015 43rd Biennial Convention in Las Vegas for their excellence in the following areas:

- Membership recruitment and retention
- Publicity and programming
- Professional and leadership development
- Local, national and international collaboration

Linda Bensfield, Coordinator of Simulation Labs, achieved national certification as a Certified Healthcare Simulation Educator (CHSE).

Mona Shattell received the 2015 CSH Excellence in Research Award in recognition of the quality, originality and impact of her research on psychiatric nursing and mental health care.

Mona Shattell was named a Vincent de Paul Professor. The award was conferred at Convocation 2015.

Elizabeth Moxley completed DOTS training, allowing for development of online and hybrid courses.

Alumnus Laurelle Brennan was named the Michigan School Nurse of the Year.



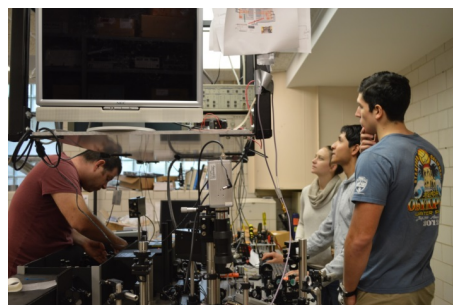
The Department of Physics

A full, rich curriculum in undergraduate and graduate physics education

The Department of Physics offers an undergraduate program with concentrations in standard and computational physics, joint engineering degrees in conjunction with Illinois Institute of Technology, and a Master's degree in Applied Physics. Internships, research and hands-on educational experiences are part of the core curriculum. The faculty collaborates with an impressive group of 12 graduate students and 80 undergraduate majors. With a significant increase in the number of majors, our dedicated and active faculty prepares students with the skills and knowledge to succeed professionally or in graduate school.

With the completion of the classroom renovations, instructors conduct lectures and labs simultaneously in a mixed-use lab-lecture room with round table seating. This arrangement provides for hands-on learning in state-of-the-art classrooms while benefiting from small class sizes.

The department offers the opportunity to study with top researchers doing work in both theory and experiment. Physics faculty actively research in a number of areas including nuclear physics (Susan Fischer), materials science (Gabriela González Avilés), nonlinear optics, dynamical systems, and computational physics (Christopher Goedde), physics education (Mary Bridget Kustusch), ultra-fast physics (Eric Landahl), cosmology (Jesús Pando) and star formation and radio astronomy (Anuj Sarma).



The department engages students in a variety of events and clubs. Physics faculty hosted Research Day in February to discuss how to get involved doing research and share opportunities with students. Additionally, several clubs are actively participating in projects, research, and travel. DePaul Astrophysics Working Group (DAWG) was recently formed to study habitable planets using two different techniques. Kayla Lynch, Justin Potvin, Krzysztof Skwirut, Samuel Montag, and Camille Ellis, with mentors Dr. Anuj Sarma, Dr. Bernhard Beck-Winchatz, and Dr. Jesús Pando, presented their work at the 2015 Science Showcase and submitted an article to *Scientia*. Sigma Pi Sigma (SPS) has been collaborating with Physics, taking field trips and building a telescope. The department continues as the lead support for SACNAS (Society for Advancement of Hispanics/Chicanos and Native Americans in Science), which seeks to broaden minority representation in the sciences.

At the annual Science Showcase, nine posters represented the work of 18 physics undergraduates.

Faculty in the Department of Physics had over \$105,000 in new grant funding in 2015.



The Psychology Department

Scholarship, professionalism, & community engagement

Award-winning faculty in the Psychology Department develop students as scholars, professionals and lifelong learners, providing knowledge, skills and experiences consistent with the science and application of psychology.

Psychology faculty received over \$4 million in new external grant awards in the 2015 calendar year.

Leonard Jason was selected as the recipient of the 2015 American Psychological Association Award for Distinguished Professional Contributions to Applied Research.

Susan McMahon was elected to a 3-year Presidential term for Division 27 of the American Psychological Association (APA): Society for Community Research and Action. Susan is also named CSH Associate Dean for Research and Faculty Development.

Kathy Grant was named APA Fellow in Division 53, The Society of Clinical Child and Adolescent Psychology.

Publisher Taylor & Francis hosted a celebration of Joseph Ferrari's 20th continuous year as Editor of the Journal of Prevention and Intervention in the Community.

Bernadette Sanchez was promoted to Full Professor and Jocelyn Carter was promoted to Associate Professor with Tenure.

Faculty members completed DOTS training to be able to offer online and hybrid courses: Trina Davis, Joseph Ferrari, Anne Saw, Cecilia Martinez-Torteya, Elyse Warren, and Molly Brown.

Research Labs and Centers

Examples of Psychology Department labs for faculty research and student engagement include:

- Center for Community Research - Leonard Jason's research is funded by NIH and involves chronic illnesses, addiction, and violence prevention.
- Social Development Lab - Directed by Yan Li, this research team investigates questions about social development from middle childhood to adolescence.
- Healthy Families Lab - Jocelyn Carter's research focuses on the intersection between mental health and physical health in urban adolescents and their families.
- Culture and Evidence-Based Practice Lab - Antonio Polo's research is on school-based interventions and mental health problems among Latino and other ethnic and linguistic minority youth.
- Emotion & Cognition Lab - Joseph Mikels' research is funded by NSF and broadly focuses on emotion-cognition interactions across the adult life span.

STEM Studies

Providing leadership and service for the purpose of strengthening STEM education throughout DePaul and Chicago

The DePaul STEM Studies program supports high quality primary and secondary STEM education for students through professional development of teachers, via the MS in Science Education program, as well as courses for teachers and undergraduates.

In the spring of 2015, Bernhard Beck-Winchatz was promoted to Professor.

Bernhard Beck-Winchatz and David Jabon have been appointed as faculty liaisons for the DePaul Honors Program.

David Jabon and Lynn Narasimhan have received funding from the Bill & Melinda Gates Foundation to enhance the Chicago Algebra Initiative, a 12-year partnership with the University of Chicago and the University of Illinois at Chicago, to provide courses for Chicago Public School middle school teachers that prepare them to offer a high school-level algebra course for qualified students in the 8th grade. The new grant supports quarterly Professional Learning Communities for 125 8th grade and high school algebra teachers and the establishment of a Virtual Community of Practice reaching roughly 1600 teachers that focuses on issues in the teaching and learning of algebra. In addition, funding from the Chicago Community Trust is supporting the same university partners in developing a sequence of courses to prepare teachers in grades 1-5 to be math specialists. In this program, which is modeled on the Chicago Algebra Initiative, six of seven courses will blend math content and pedagogy while the 7th will focus on providing leadership in math instruction.



The MS in Science Education curriculum was revised to include a year-long Next Generation Science Standards (NGSS) seminar. Additionally, NGSS has been embedded throughout the curriculum.

The 2015 Academic High Altitude Conference and pre-conference workshop were held at DePaul in June 2015. Hosted by Mark Potosnak and Bernhard Beck-Winchatz, the workshop taught educators how to use a novel low-cost balloon platform to advance STEM education and research. The conference included

presentations by researchers from around the country and multiple keynotes--including one on Google's Project Loon.



CSH Faculty Grant Funding

Grants received by CSH Faculty during calendar year 2015

Bernhard Beck-Winchatz, STEM, received funding for the project “New NASA-Based STEM Courses” from Illinois Space Grant Consortium Office.

Suzanne Bell, Psychology, received funding for the project “CREWS: Crew Recommender for Effective Work in Space” from the National Aeronautics & Space Administration.

Molly Brown, Psychology, received funding for the project “Two-year outcomes of the Homelessness Prevention and Rapid Re-Housing Program in Indianapolis, IN” from the Coalition for the Homelessness Intervent.

Andrew Carroll, Math, received funding for the project “International Conference on Representation Theory and Commutative Algebra” from the National Science Foundation.

Jocelyn Carter, Psychology, received funding for the project “Sex-specific impact of social stress during adolescence on prefrontal cortical function and dependent cognitive outcomes” from DPU RFUMS.

Sarah Connolly, Biology, received funding for the project “Development and characterization of small molecule inhibitors of herpesvirus entry into cells” from DPU RFUMS.

John Dean, Biology, received funding for the project “Glucose conjugation and vacuolar transport of salicylic acid in plants” from DPU RFUMS.

Kyle Grice, Chemistry, received funding for the project “Novel Metal-Based Drugs as Anti-Cancer and Anti-Viral Therapies” from DPU RFUMS.

Jingjing Kipp, Biology, received funding for the project “Unlocking the Molecular Secrets of CYP26B1-Mediated Ovary Development” from DPU RFUMS and for the project “Vasculature Dysfunction as a Cause of Impaired Ovulation in Polycystic Ovary Syndrome” from DPU RFUMS.

Dorothy Kozlowski, Biology, received funding for the project “Chronic effects of repeat concussive impacts on brain injury and recovery” from DPU RFUMS.



Liam Heneghan, Environmental Science and Studies, received funding for the project “CNH-RCN: A Global Sustainable Soundscapes Network” from the National Science Foundation.

Leonard Jason, Psychology, received funding for the project “Emergent Social Environments As Predictors of Recovery Resident Outcomes” from the National Institutes of Health.

Beth Lawrence, Environmental Science and Studies, received funding for the project “Furthering Capacity to Maintain High Quality Coastal Wetlands in Northern Michigan” from the U.S. Environmental Protection Agency.

Young-Me Lee, Nursing, received funding for the project “Bridges To Doctorate” from the National Institutes of Health.

Karl Liechty, Math, received funding for the project “Random Matrix Theory and Applications” from the Simons Foundation.

Lihua Jin, Chemistry, received funding for the project “Molecular Mechanisms by Which Cyclophilin-D Modulates Transcription of Mitochondrial Genes,” from DPU RFUMS.

Cecilia Martinez-Torteya, Psychology, received funding for the project “Emotion Regulation Deficits Associated with Early Trauma Among Low-Income, Minority Preschoolers” from DPU RFUMS.

Joseph Mikels, Psychology, received funding for the project “The Role of Affect in Decisions Involving Risk Across the Adult Life Span” from the National Science Foundation, for the project “Emotion, Aging, and Decision Making,” from National Institutes of Health.

Orson Morrison, FCS, received funding for the project “Conflict Resolution Services: Manierre Elementary” from the Chicago Board of Education, for the project “Behavioral Health Services: CPS Network Four” from the Chicago Board of Education, for the project “Social Emotional Learning Curriculum and Consultation” from Chicago Lights, for the project “Medicaid Reimbursements for Psych Services FY2016” from the IL Department of Human Services, for the project “Consulting Services for Avondale-Logandale Elementary School” from the Chicago Board of Education, for the project “Consultation Services for Lincoln Park High School” from the Chicago Board of Education, for the project “Consultation Services for McAuliffe Elementary School” from the Chicago Board of Education, for the project “CPS Network 4 Attendance Grant” from the Chicago Board of Education, for the project “Chicago Quest School-Based Mental Health Clinic” from the Chicago Quest Charter School, for the project “Conflict Resolution Services: Manierre Elementary” from the Chicago Board of Education, and for the project “Conflict Resolution Services: Manierre Elementary” from the Chicago Board of Education.

Carolyn Narasimhan, STEM, received funding for the project “CPS/DePaul Network Partnership: Year 4” from the Chicago Community Trust, for the project “Chicago STEM Education Consortium” from The Chicago Community Trust, for the project “DePaul/CPS Science Partnership (Year 3)” from The Chicago Community Trust, for the project “Illinois Elementary Math Specialist Project” from The Chicago Community Trust, for the project “Leading With Algebra” from the Bill & Melinda Gates Foundation, and for the project “Illinois Louis Stokes Alliance for Minority Participation 2015-16” from the National Science Foundation.

Jesus Pando, Physics, received funding for the project “Sloan Digital Sky Survey Project (SDSS-IV) FAST Support” from Astrophysical Research Consortium/SDSS.

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T. Kyle Petersen, Mathematics, received funding for the project “Algebraic, Geometric, and Enumerative Combinatorics,” from the Simons Foundation.

Christine Reyna, Psychology, received funding for the project “Graduate Student Research Support” from New York University.

Bernadette Sanchez, Psychology, received funding for the project “An Investigation of the Academic and Career Development of Latina/o High School Students in a STEM Mentoring,” from DPU RFUMS.

Paul Vadola, Chemistry, received funding for the project “New Methods for the Synthesis of Spirocycles via Lewis Acid Catalyzed Dearomative Arene Alkyne Coupling” from American Chemical Society.



Student Accomplishments

Representative honors for CSH students in 2015

Awards and Distinctions

Masters Entry to Nursing Program (MENP) student Mary Clare Houlihan received a 2015 Schweitzer Fellowship. Mary Clare proposes to implement a series of workshops through the Gilda's Club Satellite Program at Rush Cancer Center, focusing on side effects and holistic care for cancer survivors.

SACNAS (Society for Advancement of Hispanics/Chicanos & Native Americans in Science) recognized Stephanie Pacheco's work, titled "Studies of Steric and Electronic Behaviors of Palladium Compounds Bonded to Diphosphorus," as a standout among the student presentations and presented her with a SACNAS Student Presentation Award.

Jessica Arizaga, Clinical Child Psychology doctoral student, was awarded The American Psychological Association Minority Fellowship. This fellowship is quite competitive with a selection rate of approximately 7% of applicants.

Rachael Suffrin, Clinical-community Psychology doctoral student, received funding for the project "Youth Immersion Experiences" from The Society for the Psychological Study of Social Issues.

Danielle Vaclavik, Community Psychology doctoral student, was awarded Best Student Abstract by the Caucus on Homelessness at the American Public Health Association Annual Meeting.

Charlotte Galvin, Environmental Science and Studies, received the Faculty/Staff Endowed Scholarship for the 2015-2016 academic year.

Catherine Pease, Cody Sabo, Lukasz Stanek, and Ariel Wagner received Environmental Science & Studies scholarships.

Several Environmental Science and Studies students received internships during 2015, including Rebecca Dietrich who had an internship at Gary Comer Youth Center during Summer 2015. Garrett Magnusson interned at the Gary Comer Youth Center during Summer 2015. Erin Saal was offered an internship position on the Federal Sustainability Team within the White House Council on Environmental Quality. Kate Vollrath received a summer internship at the Alaska Marine Conservation Council. Jean Paul Manzanarez, Environmental Science and Studies, has an internship at the Lincoln Park Zoo.

Six Clinical Psychology doctoral candidates have obtained clinical internship positions at locations throughout the country. Clinical-child students were successful in matching at academic medical centers (Tasha Brown - Mailman Center for Child Development, University of Miami and Theressa Labarrie - Harvard Medical School, Children's Hospital of Boston), as were two Clinical-community students

(Darnell Motley - McGaw Medical Center at Northwestern University and Claudio Rivera - Lurie Children's Hospital). One student earned an internship placement in a VA hospital (Anne Rufa - VA Central Texas Health Care System) and one matched at a community health agency (Charlynn Odahl-Ruan, Community Reach Center Denver Colorado).

Alumnus Natalie Hengstebeck (2011) was awarded a Fulbright for research on cross-national differences in parents' relationship quality in 15 European countries. Natalie is a PhD. candidate at the University of North Carolina, Greensboro.

CAURS: The Chicago Area Undergraduate Research Symposium (CAURS), one of the largest annual undergraduate research conferences in the country, brings together hundreds of undergraduate students in the Chicagoland area. The following DePaul students presented their research:

Maya Navarro, Chemistry
The Influence of Environmental Factors on Bromeliad Invertebrate Biodiversity
Faculty Advisor Laura Chavarría Pizarro, PhD, University of Costa Rica

Debra Eluobaju, Biological Science
Hydrogen Peroxide's induction of differentiation in *Leishmania amazonensis*
Faculty Advisor Kwang-Poo Chang, PhD, Rosalind Franklin University of Medicine and Science

Kelly Adams, Psychology
Do we like "liking" too much? Examining the role of self-esteem and numbers in perceptions of Facebook notifications.
Faculty Advisor Verena Graupmann, PhD, DePaul University

Kaitlynn Tracy, Physics
Phosphorylation of GAP-43 and the Effect on APP Processing
Faculty Advisor Eric Norstrom, PhD, Department of Biological Sciences, DePaul University

Samantha Lane, Biological Sciences
Activation of Inflammatory Caspase-1 in Human Hepatoma Cells
Faculty Advisor Gulam Waris, PhD, Rosalind Franklin University of Medicine and Science

Kristen Belgrave, Psychology
Formation of Social Preference Goals in Adolescents: Relations to Social Status, Prosocial Behaviors, and Aggression
Faculty Advisor Yan Li, PhD, DePaul University

Bryan McClarty, Biology
Effect of Surfactant on Biofilm Development in a Blood Isolate of *S. maltophilia*
Faculty Advisor Joanna S. Brooke, PhD, Department of Biological Sciences, DePaul University

Kirsten Lopez, Anthropology
Between Man and Beast: Human-Animal Metamorphosis as a Reflection of Morality in the Lais of Marie de France
Faculty Advisor Lisa Sigel, PhD, and Karen Scott, PhD, DePaul University

Andrew Devendorf, Psychology
Workplace order and disorder: How does it affect eating and creativity?
Faculty Advisor Susan Markunas, PhD, DePaul University

Cesar Saucedo, Chemistry
Electrochemical Study of Group 6 Metal Carbonyls for CO₂ Reduction



Faculty Advisor Kyle A. Grice, PhD, DePaul University

John David Manuel, Chemistry
Reduction of Carbon Dioxide and Bicarbonate by Borohydride in Aqueous Conditions
Faculty Advisor Kyle A. Grice, PhD, DePaul University

Abigail Leeper, Biological Sciences
Winter Acorn Abundance at Red-head Woodpecker Roosting Sites
Faculty Advisor Jalene LaMontagne, PhD, DePaul University

Phoebus Sun Cao, Chemistry
The Synthesis of Zinc Complexes to Mimic HDAC Active Sites
Faculty Advisor Kyle A. Grice, PhD, DePaul University

Mark Sovereign and Jay Bhanot, Chemistry
Homogeneous Early Metal Complexes for Electrochemical CO₂ Reduction.
Faculty Advisor Kyle A. Grice, PhD, DePaul University

Jack O'Brien and Yvita Bustos, Psychology
Wait, what do you mean "he?": Perceptions of male victims of intimate partner violence
Faculty Advisor Theresa Luhrs, PhD, DePaul University
*Awarded Top Presenters from Sponsor Institution

Sara Teemer, Biology Education
Host-sharing and reproductive costs in the parasitic copepod, *Naobranchia lizae*, infecting striped mullet
Mugil cephalus
Faculty Advisor Timothy C. Sparkes, PhD, DePaul University, and Isaure de Buron, PhD, College of
Charleston

Angela Pastor, Jack O'Brien and Laura Nicholson, Psychology
Abusive Enough? Self-identification and acceptability of abuse in dating relationships
Faculty Advisor Theresa Luhrs, PhD, DePaul University

Hannah Eboh, Geography
Hurricane Regions of Increased Risk: Analysis of the Caribbean's Leeward and Windward Island Groups
Faculty Advisor Julie Hwang, PhD, DePaul University

Kim-Marie Dam, Cell and Molecular Biology
Regulation of Intestine Na⁺/K⁺-ATPase during Salinity Acclimation in the Three-spined Stickleback
(*Gasterosteus aculeatus*)
Faculty Advisor Jason Bystriansky, PhD, DePaul University

Brandon Roman, Biology, Chemistry
The Effects of Neuroplastin-65 and the Mannose-6-Phosphate-Receptor on Amyloid Precursor Protein
Processing
Faculty Advisor Eric Norstrom, PhD, DePaul University

Jeffrey Gulczynski, Grace Spee, Michael Schoder and Alexandra Barnett, Psychology
Investigating Preschool Teacher Self-Efficacy to Inform Head Start Preschool Prevention Programs
Faculty Advisor Karen Budd, PhD, DePaul University

Lissette Arellano, Biological Sciences
Evolutionary versatility and efficiency of mammalian masticatory muscles
Faculty Advisor Dallas Krentzel, University of Chicago, Field Museum

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Emma Whitmore, Biological Sciences
Regulation of ion channels in gills of Lake Trout (*Salvelinus namaycush*) during salinity transfer and acclimation
Faculty Advisor Jason Bystriansky, PhD, DePaul University

David Abramov, Biology and Physics
Sodium Potassium Pump (Na/K⁺ -ATPase) Activity in Two-Year Old Sturgeon (*Acipenser transmontanus*) Under Different pH Conditions
Faculty Advisor Jason Bystriansky, PhD, DePaul University

Kyle Moy, Computer Science
Identification of Gene Function in *C. elegans* using Image Analysis
Faculty Advisors Daniela S. Raicu, PhD, DePaul University, Jacob D. Furst, PhD, DePaul University, and Hongkyun Kim, PhD, Rosalind Franklin University

Kathleen Anaza, International Studies and Arabic Studies
“Through Muddied Waters: Ordinary Africans Negotiations of Corruption, Modernity, Coloniality and Identity”
Faculty Advisor Shiera Malik, PhD, DePaul University

DePaul Discoveries is a peer-reviewed undergraduate research journal published by DePaul University’s College of Science and Health. The following CSH students had their original research published in DePaul Discoveries Volume 4, published in 2015.

“Do Oaks With a Provenance Related to Warmer Climates Emit More Isoprene?”
Elizabeth Carter

“Diol-Mediated versus Water-Mediated Proton Transfer Reactions”
Angela Moses

“A High-Altitude Balloon Platform for Determining Regional Uptake of Carbon Dioxide over Agricultural Landscapes”
Angela M. Bouche

“Detection of Baryonic Acoustic Oscillations in the Matter Power Spectrum”
Spencer Everett, Ian Johnson, Jon Murphy, and Mary Tarpley

“A Preliminary Study of Soundscape Analysis as a Measurement of Ecosystem Health”
Veronica M. Jachowski, Lisa Kenny, Michelle Hauer, Andrew Kühn, and Spencer Barrett

“Chronic Inflammation as a Result of Hepatitis C Virus Infection: A Review of the Literature”
Samantha L. Lane

“Homelessness as a Determinant of Health Disparities Between Young Gay and Bisexual Males in Chicago”
Jaclyn M. Shea and Douglas Bruce

“Measuring Rates of Atmospheric Phosphorus Deposition into a Fresh Water Wetland”
Cassandra Shah

“Ecosystem Services of Prairie Wolf Slough: Quantifying Carbon Storage”
Megan L. Hoff

“Effects of Temperature on the Crystal Structure of Lithium-Lanthanum Zirconate”



Mir Iqbal

“The Effects of Environmental Factors on Bromeliad Invertebrate Biodiversity”

Maya E. Navarro

“Knowledge of Clinical Measures and Healthcare Adherence In Young Gay and Bisexual Men Living with HIV/AIDS”

Harry A. Persaud and Douglas Bruce

“The Effect of Hydrogen Peroxide on *Leishmania amazonensis* Promastigotes”

Debra Eluobaju

“Phosphorylation of GAP-43 and the Effect on APP Processing”

Kaitlynn Tracy and Eric Norstrom

“Size-, Side- and Site-Related Predation of Naticid Gastropods on Dwarf Surf Clams (*Mulinia lateralis*) and Incongruous Ark Clams (*Anadara brasiliana*) on The Atlantic Coast”

Erica Valdez and Danielle N. Araiza

“Predation in a Natural Community of Marine Mollusks: Using Morphology to Determine Predator-Prey Ecology”

Danielle N. Araiza and Erica Valdez

“Predictors of Money Spent on Drugs in Substance Users”

Simona Ciobotaru

“Generation and Assessment of Muscular Mutations in *Caenorhabditis elegans*”

Katie N. Reget

“Quantifying greenhouse gas flux in a restored tallgrass prairie; does chamber material matter?”

Peter L. McCollam

“Nanodiamond Extraction at a Potential Impact Location”

Joel Kathan

“Defining the Circumstellar Habitable Zone”

Blake Cervetti and Joanna McCall

The 2015 DePaul Discoveries Editorial Board is composed of the following DePaul faculty members who work closely with students on publishable quality academic work.

Mona Shattell, PhD, RN, FAAN

Jocelyn Carter, PhD, Department of Psychology

Gabriela Gonzalez Aviles, PhD, Department of Physics

Kyle Grice, PhD, Department of Chemistry

Craig Klugman, PhD, Department of Health Sciences

Dorothy Kozlowski, PhD, Department of Biology

T. Kyle Petersen, PhD, Department of Mathematics

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Mark Potosnak, PhD, Department of Environmental Sciences and Studies

Bridget Tenner, PhD, Department of Mathematics

Louis Stokes Alliance for Minority Participation (LSAMP): At the 2015 Illinois Louis Stokes Alliance for Minority Participation (LSAMP) Spring Symposium and Research Conference in STEM, six DePaul students received top honors for oral and poster presentations in Biology and Chemistry.

Maya Navarro, Chemistry
2nd Place, Chemistry Oral Presentation

Danielle Araiza, Health Sciences/Biology
1st Place, Biological Sciences Oral Presentation

Erica Valdez, Biology
2nd Place, Biological Sciences Oral Presentation

Joshua Smith, Biology
1st Place, Chemistry Poster Presentation

Darcy Velazquez, Chemistry
Stephanie Pacheco, Biology
2nd Place, Chemistry Poster Presentation

The Undergraduate Summer Research Program (USRP) supports undergraduate research over the summer by providing students with a stipend and funds to purchase research supplies.

There were twenty-one student projects, supervised by seventeen faculty mentors.

Faculty Mentor	Student Awardee
Anuj Sarma	Kayla Lynch, Krzysztof Skwirut
Beth Lawrence	Olivia Johnson
Caitlin Karver	Catherine Shamblen
Dorothy Kozlowski	James Coy-Dibley
Eric Landahl	Fabricio Marin
Ilie Ugarcovici	Patrick Morgan
Jalene LaMontagne	Abigail Leeper
Jason Bystriansky	David Abramov
Jesus Pando	John Linehan
Joseph Mikels	Elizabeth Guidi
Kyle Grice	Jay Bhanot, Cesar Saucedo
Leonard Jason	Andrew Devendorf
Mark Potosnak	Michael Cole, Cody Sabo
Mary Bridget Kustusich	Rita Dawod
Paul Vadola	Edward Gluzman
T. Kyle Petersen	Tauras Dambrauskas, Connor Thomas
Timothy Sparkes	Sara Teemer

DePaul Students Study Abroad: Peru

Dr. Christie Klimas leads students in studying environmental impacts of the global marketplace

Dr. Christie Klimas, Environmental Science and Studies, leads DePaul undergraduates on a 10-day Liberal Studies Program (LSP) 112 study abroad course to Peru titled “Chocolate, Coffee, Gold: Ethical Sourcing in a Global Marketplace.” Students visit archaeological, historical, and cultural sites, along with areas affected by mining, learning about the environmental impacts of mines alongside the human impacts. Students visit the Central Highland town of Huancayo, the catacombs in San Juan de Lurigancho district of Lima, and the Nor Yauyos-Cochas Landscape Reserve.

Extraction of gold and other minerals is lucrative, and many Peruvians experience rags-to-riches lifestyle changes as mining revenue flows into rural areas. While citizens experience a jump in quality of life, the smelters necessary to the mining industry cause blood lead levels well above EPA standards of safety. Of particular concern are neurological and behavioral problems; those affected have no recourse for damages.

DePaul students visit an area with a smelter that closed ten years prior, and find that despite negative environmental and human impacts, many locals want the smelter reopened. In the time that the smelter has been closed, residents’ blood lead levels have dropped and air pollution has decreased considerably.

According to Klimas, students who experience this trip to Peru often enter “unambiguously opposed to mining,” and, by the end of the trip, find that there are many nuances and human needs to take into account that may change their views. “In areas that want mines, [scientists] can do a lot more than we are doing,” Klimas says. The challenge to reopening the operation includes new buyers having to clean the old pollution and move forward with more stringent regulations in place.

Study abroad students also explore the coffee and chocolate industries in Peru. Although the chocolate industry has a history of human rights violations and child labor on the Ivory Coast and other areas worldwide, Peru has developed its market based on fair labor chocolate. DePaul students spend time with workers on the ground and learn about fair trade markets, including coffee and chocolate as well as various artisan products.

“This trip changes how students see people in poverty—they are not helpless, they are not victims—but they are agents of change,” says Klimas. The fact that these are first-year DePaul students helps them shift their priorities in college, and many students begin to focus not only on their academic trajectory but also on their career path and personal goals. Klimas notes that experiences such as the LSP 112 trip to Peru give DePaul students “a point of entry to change the global status quo.”

CSH Faculty Publications

2015

Department of Biology



Windsor E. Aguirre

Jimenez, P., **Aguirre, W.**, Laaz, E., Navarrete, R., Nugra, F., Rebolledo, E., Zarate, E., Torres, A., Valdiviezo, J. (2015). *Guía de Peces para Aguas*

Continental en la Vertiente Occidental del Ecuador. Pontificia Universidad Católica del Ecuador, Sede Esmeraldas (PUCESE), Universidad del Azuay (UDA) y Museo Ecuatoriano de Ciencias Naturales (MECN) del Instituto Nacional de Biodiversidad. Esmeraldas, Ecuador. 416 pp.

Aguirre, W., Navarrete, R., Malato, G., Calle, P., Loh, M., Vital, W., Valadez, G., Vu, V., Shervette, V. R., Granda, J. C. (in press). Body Shape variation and population genetic structure of *Rhoadsia altipinna* (Characidae: Rhoadsinae) in Southwestern Ecuador. *Copeia*.



Jason Bystriansky

Shaughnessy, C.A., Baker, D.W., Brauner, C.J., Morgan, J.D.,

Bystriansky, J.S. (2015). Osmoregulation and acid-base balance

in the white sturgeon (*Acipenser transmontanus*) during exposure to aquatic hypercarbia and elevated salinity. *J. Exp. Biol.*, 218, 2712-2719.

Regan, M.D., Dhillon, R.S., Toews, D.P.L., Speers-Roesch, B., Sackville, M.A., Pinto, S., **Bystriansky, J.S.** and Scott, G.R. (2015). Biochemical correlates of aggressive behaviour in the Siamese fighting fish (*Betta splendens*). *J. Zool.*, 297, 99-107.



Stanley A. Cohn

Cohn, S. A., Halpin, D., Hawley, N., Aisha, I., Zachary, K., Thomas, K., Jennifer, K., William, M., Kelly, M., Brittany, N., Szymon, O., Alex, P., Eric, R., James, S., Amanda, W., Yuri,

Z. (2015). Comparative analysis of light-stimulated motility responses in three diatom species. *Diatom Research*, 30, 213-225.

Cohn, S.A., Patterson, K., Wolske A.L. (2015) Analysis of Multiple Species Presence on Diatom Motility. In *Abstracts of the 54th American Society of Cell Biology Meeting 2015*, *Mol. Biol. Cell* 26(suppl), published online at www.ascb.org, abstract #1375.



Jalene M. LaMontagne

Anderson, E. C., **LaMontagne, J. M.** (in press). Nest selection by Red-headed Woodpeckers across three spatial scales in an urban environment. *Urban Ecosystems*,

DOI: 10.1007/s11252-015-0491-3.

Anderson, E.C., and **LaMontagne, J.M.** (2015). Characteristics of recently used or reused Red-headed Woodpecker cavity nests in Cook County, IL. *Meadowlark*, 23, 46-52.

LaMontagne, J.M., Kilgour, R.J., Anderson, E.C., and Magle, S. (2015). Tree cavity availability across forest, park, and residential habitats in a highly urban area. *Urban Ecosystems*, 18, 151-167.

Talitha Rajah



Photo Not Available

Rajah, T. T., Sorenson, M. R., Maria, P., Andrew, J. (2015). Effect of Genistein on Cytokine Expression in Healthy Women. *International Archives of Microbiology and Immunology*, 2015 (1), 8-15.

Rajah, T. T., Wolfe, B., Gandhi, R. (2015). Effect of Resveratrol on Metastasis: A Review. *IOSR: Journal of Pharmacy*, 5, 8-11.

Department of Chemistry



Tim French

French, T. A., Sanchez, A., Macur Brousil, L. A., Balison, E. E. Compartmentalization of Energy Concepts--Definitions, Ontologies, and Word Associations (2015).

Proceedings of the 2015 Physics Education Research Conference.



Kyle A. Grice

Grice, K. A., Kositarut, J. A., Lawando, A. E., Sommer, R. D. (2015). Intramolecular C-H activation by air-stable Pt(II) phosphite complexes. *Journal of Organometallic Chemistry*, 799-800, 201-207.

Grice, K. A., Groenenboom, M. C., Manuel, J. D. A., Sovereign, M. A., Keith, J. A. (2015). Examining the selectivity of borohydride for carbon dioxide and bicarbonate reduction in protic conditions. *Fuel*, 150, 139-145.



Caitlin E. Karver

Kawarski, M., Hagerman, T. K., **Karver, C. E.** (2015). Lazaroids U83836E and U74389G are Potent, Time-dependent Inhibitors of Caspase-1. *Chemical Biology and Drug Design*, 86, 1049-1054.

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Gregory B. Kharas

Kharas, G. B., Kuffel, N., Speltz, T., Bittar, E., Canby, D., Grecco, A. E., Jacks, R. D., Janusauskaite, A., & Kiengsadaphone, K. (2015). Novel Copolymers of Styrene. 4.

Halophenoxy Ring-Substituted 2-Cyano-3-phenyl 2-propenamides. *J. Macromol. Sci.*, A52, 10-14.

Kharas, G. B., De Boer, D. M., Fellows, M. E., Gonzales, S., Mahoney, R. J., Mandas, K. C., Mazur, N. X., & Michalak, G. P. (2015). Novel Copolymers of Styrene. 5. Some Ring-Substituted 2-Cyano-3-phenyl-2-propenamides. *J. Macromol. Sci.*, A52, 15-19.

Kharas, G.B., Rocus, S.M., Zuziak, M., Elangovan, V., Kovaleva, A.N., Malik, S., Nwosu, O., Patel, L.A., Piche, A., & Rosengarden, S. J. (2015). Novel Copolymers of Styrene. 6. Some Ring-Disubstituted Butyl 2-Cyano-3-Phenyl-2-Propenoates. *J. Macromol. Sci. A52* (12), 971-975.

Kharas, G.B., Feng, H., Arendt, L.A., Belton, S.E., Edwards, M.Q., Franz, E.K., Grin, A., Hale, C.M.,

Oyeyipo, I.C., Wolske, A.L., Zavala, P.L. & Zenunovic, A. (2015). Novel Copolymers of Styrene. 5. Methyl and Methoxy Ring-Disubstituted Butyl 2-Cyano-3-Phenyl-2-Propenoates. *J. Macromol. Sci. A52* (12), 976-981.

Kharas, G.B., Gao, Y., Merriman, E.E., Parker, K.N., Patel, H. T., Raza, M.B., Sekhon, J., Stuckey, S.M., Styrczula, M., Ulloa, M.C., & Vital, W.F. (2015). Novel Copolymers of Styrene. 4. Halogen Ring-Substituted Butyl 2-Cyano-3-Phenyl-2-Propenoates *J. Macromol. Sci. A52* (11), 887-891.

Kharas, G.B., Gao, Y., Aburas, J., Chintanaphol, C., Davis, M.L., Dolubizno, H., Dovenberg, K.M., Eluobaju, E.O., Gill, E.R., Gillespie, G.D., Hiebel, M.M., Marino, S.A., Ramires, J., & Saipi, B. (2015). Novel Copolymers of Styrene. 3. Some Ring-Substituted Butyl 2-Cyano-3-Phenyl-2-Propenoates. *J. Macromol. Sci. A52*(8), 593-598.

Kharas, G.B., Feng, H., Aranda, C., Navarro, M.E., Pacheco, S., Pazderka, Q., Rebollar, P., Reynolds, T., Sanchez, M.E., Sichory, J.L., Susol, A., & Ziemianska, N. (2015). Novel Copolymers of Styrene. 2. Alkoxy Ring-Substituted Butyl 2-Cyano-3-Phenyl-2-Propenoates. *J. Macromol. Sci. A52*(7), 504-509.

Kharas, G.B., Spann, T., Dawood, R., Deleon, I.J., Estes, M.A., Gilbert, J.M., Goshu, B.A., Harris, E.D., Kyoseva, T.D., Lam, D., Malik, S., & Mochel, P. (2015). Novel Copolymers of Styrene. 1. Alkyl Ring-Substituted Butyl 2-Cyano-3-Phenyl-2-Propenoates. *J. Macromol. Sci. A52*(7), 499-503.

Kharas, G.B., Ayman, N.J., Calso, R., Jordanovic, L., Lane, F., Lusciks, J., Onofre, J., Soto, Y.L., Vega, E., Voss, M.A. & Woodard, T.D. (2015). Novel Copolymers of Styrene. 11. Ring-Substituted 2-Cyano-3-phenyl 2-propenamides. *J. Macromol. Sci. A52*(6), 412-416.

Kharas, G.B., Bhavsar, H.S., Nordness, K.S., Pecovitch, E.A., Pyrz, M.E., Rice, E.R., Schuch, R.A., Sislow, M.J., Trinh, A.M. & Jordanovic, L. (2015). Novel Copolymers of Styrene. 10. Halo Ring-Substituted 2-Cyano-3-phenyl 2-propenamides. *J. Macromol. Sci. A52*(6), 407-411.

Kharas, G.B., Schjerven, W.S., Wenk, R., Tague, K.A., Betzen, E.M., Kodros, N.R., Kuehlhorn, J.S., Kunkel, C.S., Muller, A.F. & Quercioli, J.L. (2015). Novel Copolymers of Styrene. 9. Methyl and Methoxy Ring-Substituted 2-Cyano-3-phenyl 2-propenamides. *J. Macromol. Sci. A52* (5), 360-364.

Kharas, G.B., Hill, B.L., Garcia, M.V., Kinderman, W.J., Kopack, K.N., Kropp, J.J., Little, R.S., Matiotta, S.L., Pinkston, E.L., Polizzi, S.D. & Shair, N.M. (2015). Novel Copolymers of Styrene. 8. Ring-Trisubstituted 2-Cyano-3-phenyl-2-propenamides. *J. Macromol. Sci. A52* (5), 331-335.

Kharas, G.B., Gennett, L., Harvey, Y.L., Jennings, E.R., Petropoulod, D., Smith, O.C., Spencer, L.A. & Stanton, K.J. (2015). Novel Copolymers of Styrene. 7. Chlorine Ring-Substituted 2-Cyano-3-phenyl-2-propenamides. *J. Macromol. Sci. A52* (3), 163-167.

Kharas, G.B., Kray, L.J., Mitchell, S.L., Muhammad, J., Numir, F., Plass, E.A., Reens, J., Skariah, J.M., Sosnoski, E.R. & Svienty, C.J. (2015). Novel Copolymers of Styrene. 6. Halogen Ring-Substituted 2-Cyano-3-phenyl 2-propenamides. *J. Macromol. Sci. A52* (2), 85-89.

Kharas, G.B., Feng, H., Bhavsar, H.S., Rocus, S.M., Schjerven, W.S., Shahbain, A., & Spann, T. (2015). Novel Copolymers of Styrene. 18. Halo Ring-Trisubstituted Methyl 2-Cyano-3-Phenyl-2-Propenoates. *J. Macromol. Sci. A52* (2), 90-94.



Justin J. Maresh

Maresh, J. J., Parra, R. D. (in press). Structural and Energetics Aspects of a Proposed Mechanism for the Phosphate-Mediated Pictet-Spengler Cyclization Reaction: A Computational Study.

Computational and Theoretical Chemistry.



Ruben D. Parra

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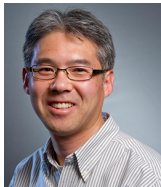
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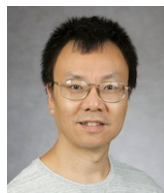
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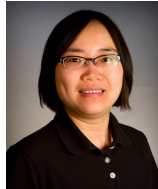
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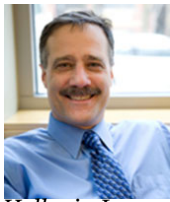
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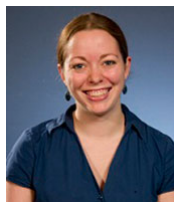
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Sandra M. Virtue

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Jennifer Zimmerman

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status and power on interracial problems and their solutions. In A. Blume (Ed.), *Social Issues in Living Color: Challenges and Solutions from the Perspective of Ethnic Minority Psychology*. Santa Barbara, CA: Praeger.

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STEM Studies



Bernhard Beck-Winchatz

Hike-Teague, N., **Beck-Winchatz, B.** (2015). Near-Space Science in High School. *Science Teacher, The*, 82, 29-36.

Beck-Winchatz, B. (2015). Celestial Navigation with a Stick. *The Classroom Astronomer*, 8-12, 25.

School of Nursing

Donna Badowski



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Elizabeth Florez

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Ian, C., **Florez, E.**, Lee, Y.-M. (in press). Registered Nurses' Experiences with Caring for Non-English Speaking Patients. *Applied Nursing Research*, 30.

Larimer, K. A., Durmus, J., **Florez, E. A.** (in press). Experiences of Young Adults with Pacemakers and/or ICDS. *Journal of Cardiovascular Nursing*.

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Barbara A. Harris

Lauren, H., Taylor, W., Mona, S. M., **Harris, B. A.** (2015). Nursing Students' Attitudes Toward Psychiatric Mental Health Nursing. *Issues in Mental Health Nursing*, 36, 29-34.

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Paula Kagan

Pater, P., Shattell, M., **Kagan, P.** (2015). Video games as nursing interventions. *Issues in Mental Health Nursing*, 36, 156-160.



Karen A. Larimer

Larimer, K. A., Durmus, J., Florez, E. A. (in press). Experiences of Young Adults with Pacemakers and/or ICDS. *Journal of Cardiovascular Nursing*.



Young-Me Lee

Lee, Y.-M., Florez, E. A., Horwitz, K., Waters, R. (2015). Latino Adolescent Perspectives Towards Sexually Transmitted Infection Educational Programs.. *International Journal of Nursing Knowledge*, 27, 17-23.

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Matthew R. Sorenson

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Joseph D. Tariman

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Lori L. Thuente

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Chew, A., Shattell, M., Zimmerman, J. L., **Thuente, L. L.** (2015). School nurses' beliefs and interventions about childhood obesity. *School Nurse News*, 32, 9-14.

Fewster-Thuente, L. L., Tamzin, T. (in press). Teaching collaboration competencies to healthcare provider students through simulation. *Journal of Allied Health*.

CSH in the Media

CSH Faculty and Staff were widely featured in media outlets during 2015

January 1, 2015, in the *Daily Commercial*
Area leaders talk about resolutions for 2015
Joseph Ferrari, Department of Psychology

Jan. 2, 2015, in the *The Guardian*
Breaking up is hard to do. But procrastinating doesn't make it easier
Joseph Ferrari, Department of Psychology

Jan. 9, 2015, in *The DePaulia*
The danger of Chiberia's polar vortex
Mark Potosnak, Department of Environmental Science and Studies

Jan. 13, 2015, in the *Health Cheat Sheet*
Why Procrastination Is a Health Risk and How to Stop
Joseph Ferrari, Department of Psychology

Jan. 20, 2015, in the *Pacific Stand*
The Oddly Reassuring Quality of Surrealistic Art
Verena Graupmann, Department of Psychology

Feb. 1, 2015, in the *Pop Sugar*
What You Never Knew About Procrastination and How to Cure It
Joe Ferrari, Department of Psychology

Feb. 3, 2015, in the *The Richest*
9 Scientifically Proven Ways Women Can Be More Attractive To Men
Midge Wilson, Department of Psychology

Feb. 9, 2015, in the *WBEZ*
The right to die: How legal suicide in Canada can affect the U.S.
Craig M. Klugman, Department of Health Sciences

Feb. 10, 2015, in the *New York Times Online*, *Twin Cities*, *News Observer*
Chronic Fatigue Syndrome Gets a New Name
Leonard Jason, Department of Psychology

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Feb. 10, 2015, in the *Scientific American*
Chronic-Fatigue Syndrome Gets Controversial Redefinition
Leonard Jason, Department of Psychology

Feb. 10, 2015, in the *Tampa Bay Times*
Chronic fatigue syndrome gets a new name (w/video)
Leonard Jason, Department of Psychology

Feb. 11, 2015, in the *MedCity News*
Chronic fatigue syndrome to be renamed “systemic exertion intolerance disease”
Leonard Jason, Department of Psychology

Feb.11, 2015, in the *The Advisory Board Compan*
IOM wants to give 'chronic fatigue syndrome' a new name
Leonard Jason, Department of Psychology

Feb. 13, 2015, in the *WGN*
Loss of loves can have physical effects
Karen Larimer, Mona Shattell, School of Nursing

Feb. 14, 2015, in the *Latin Post*
Heart & Health Experts Discuss Valentine's Day Heart Health, Depression and Love Tips for Latinos
Karen Larimer, Mona Shattell, School of Nursing

Feb. 19, 2015, in the *Chicago Tribune*
Turning Point Behavioral Health Care Center Announces New Board Members
Mona Shattell, School of Nursing

March 2, 2015, in the *Science Daily and Las Vegas NV Blog*
Perfect NCAA bracket? Near impossible: Mathematician says
Jeff Bergen, Department of Mathematical Sciences

March 3, 2015, in the *Chicago Tribune*
Chances of a perfect March Madness bracket? 1 in 9.2 quintillion
Jeff Bergen, Department of Mathematical Sciences

March 3, 2015, in the *KWWL*
Your chances of a perfect March Madness bracket? Very slim.
Jeff Bergen, Department of Mathematical Sciences

March 3, 2015, in the *WDRB*
This is how unlikely it is that you will pick perfect bracket
Jeff Bergen, Department of Mathematical Sciences

March 3, 2015, in the *KRNV*
March Madness: Odds are not in your favor
Jeff Bergen, Department of Mathematical Sciences

March 3, 2015, in the *RedEye*
When it comes to addiction, are stars just like us?
Joseph Ferrari, Department of Psychology

March 4, 2015, in the *IBT Pulse*
Perfect NCAA March Madness 2015 Bracket Odds At 1 In 9.2 Quintillion, Easier To Win Mega Millions Twice In A Row

Jeff Bergen, Department of Mathematical Sciences

March 5, 2015, in *The Washington Post*
A perfect NCAA bracket isn't impossible — you just need 9 quintillion tries

Jeff Bergen, Department of Mathematical Sciences

March 4-5, 2015, in the *ABC, NBC, FOX and CBS affiliate stations*
Numerous broadcast stories on Jeff Bergen can be seen by logging in to TV Eyes
Jeff Bergen, Department of Mathematical Sciences

March 5, 2015, in the *St. Louis Business Journal*
5 things you don't need to know but might want to and what your Budweiser says about you
Jeff Bergen, Department of Mathematical Sciences

March 5, 2015, in the *Inc.*
3 Types of Procrastinators & What Motivates Them (infographic)
Joseph Ferrari, Department of Psychology

March 9, 2015, in the *WBEZ*
Beasts of Bedtime finds environmental threats in Children's books
Liam Heneghan, Department of Environmental Science and Studies

March 11, 2015, in the *Daily Utah Chronicle*
TV trumps homework for U students
Joseph Ferrari, Department of Psychology

March 12, 2015, in the *Orlando Sentinel*
Death café: Casual way to discuss human mortality
Gerald Koocher, 2015, in CSH

March 13, 2015, in the *Men's Fitness*
5 Things More Likely Than Having A Perfect March Madness Bracket
Jeff Bergen, Department of Mathematical Sciences

March 13, 2015, in the *The Post Game (Yahoo Sports)*
Math Professor Explains Insane Odds Of Picking Perfect NCAA Tourney Bracket
Jeff Bergen, Department of Mathematical Sciences

March 13, 2015, in the *Chicago Sun-Times*
Math lovers note: Pi Day approaches with parties and yes, pie
Jeff Bergen, Department of Mathematical Sciences

March 15, 2015, in the *The Bleacher Report*
Printable NCAA Tournament Bracket 2015: Downloadable Sheet, Tips for Best Picks
Jeff Bergen, Department of Mathematical Sciences

March 15, 2015, in the *Boston.com*
Winning the Lotto, Getting Hit by Lighting and Other Things More Likely Than a Perfect Bracket
Jeff Bergen, Department of Mathematical Sciences

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March 16, 2015, in the *Washington Post*
No, you're not going to pick a perfect tournament bracket
Jeff Bergen, Department of Mathematical Sciences

March 16, 2015, in the *Inquisitr*
2015 NCAA Tournament Bracket: Can These Tips Get You A Perfect Bracket?
Jeff Bergen, Department of Mathematical Sciences

March 16, 2015, in the *Business Insider*
The odds of getting a perfect NCAA bracket are way better than 1 in 9,223,372,036,854,775,808
Jeff Bergen, Department of Mathematical Sciences

March 16, 2015, in the *The Fiscal Times*
Here's How Much Americans Will Bet on March Madness
Jeff Bergen, Department of Mathematical Sciences

March 16, 2015, in the *The StarPhoenix*
Five things to know about March Madness
Jeff Bergen, Department of Mathematical Sciences

March 16, 2015, in the *New York Times*
Tool of N.C.A.A. Bracket Ignorance: Your Basketball Smarts
Jeff Bergen, Department of Mathematical Sciences

March 16, 2015, in the *Disclose.tv*
Odds of A Perfect NCAA Basketball Bracket — DePaul Expert, Professor Jeff Bergen
Jeff Bergen, Department of Mathematical Sciences

March 16, 2015, in the *Huffington Post*
You Have a 1 in 9,223,372,036,854,775,808 Chance of Randomly Picking a Perfect NCAA Bracket
Jeff Bergen, Department of Mathematical Sciences

March 16, 2015, in the *NBC News (WRCB)*
Can Bing Help You Pick the Perfect NCAA Bracket? Don't Bet on It
Jeff Bergen, Department of Mathematical Sciences

March 16, 2015, in the *Big Think*
You're More Likely to Visit the Moon Than Pick a Perfect March Madness Bracket
Jeff Bergen, Department of Mathematical Sciences

March 16, 2015, in the *Business Insider*
The 3 types of procrastinators and what they're motivated by
Joe Ferrari, Department of Psychology

March 17, 2015, in the *Good Day Chicago Fox 32*
DePaul's Jeff Bergen: NCAA bracket perfection
Jeff Bergen, Department of Mathematical Sciences

March 17, 2015, in the *Yahoo Lifestyle*
Don't Blame Me, I Was Born Flaky
Joe Ferrari, Department of Psychology

March 17, 2015, in the *Forbes*
Bracketology 101: Picking A Perfect Bracket Is Actually Easier Than You Think
Jeff Bergen, Department of Mathematical Sciences



March 17, 2015, in the *Daily Mail*
'March Madness' grips USA to tune of \$2 bn
Jeff Bergen, Department of Mathematical Sciences

March 17, 2015, in the *Leader-Post*
March Madness bracket racket: Five things worth knowing
Jeff Bergen, Department of Mathematical Sciences

March 17, 2015, in the *USA Today Sports*
Duke math professor says odds of a perfect bracket are one in 2.4 trillion
Jeff Bergen, Department of Mathematical Sciences

March 16, 2015, in the *Washington Post*
Forget a perfect bracket. Shoot for a perfect NCAA tournament first round instead.
Jeff Bergen, Department of Mathematical Sciences

March 18, 2015, in the *Chicago Tribune (Video)*
Madness surrounds DePaul math professor every March
Jeff Bergen, Department of Mathematical Sciences

March 18, 2015, in the *Business World Online*
'March Madness' a big business in USA
Jeff Bergen, Department of Mathematical Sciences

March 19, 2015, in the *Gainesville Times*
NCAA basketball contests a big business for some
Jeff Bergen, Department of Mathematical Sciences

March 27, 2015, in the *Huffington Post*
The Growing Right Arm of For-Profit Prisons
Mona Shattell, School of Nursing

March 27, 2015, in the *Amarillo Magazine*
Some of us are the Picassos of Procrastination
Joe Ferrari, Department of Psychology

April 4, 2015, in the *Daily Herald*
Study finds art helps nursing and medical students' observation skills
Craig Klugman, Department of Health Sciences

April 5, 2015, in *The DePaulia*
Airline disasters highlight irrationality of human fears
Ralph Erber, Department of Psychology

April 8, 2015, in the *NursingTimes.net*
Student nurses improve observation skills through visual arts course in US
Craig Klugman, Department of Health Sciences

April 12, 2015, in *The DePaulia*
DePaul's World Catholicism Week stresses responsibility for planet
James Montgomery, Department of Environmental Science and Studies, with
Scott Kelley, Department of Religious Studies,
Bill Cavanaugh, Department of Catholic Studies,
Matt Charnay, Student Affairs,

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Abdul Malik Ryan, Student Affairs, and
Sister Katie Norris, Student Affairs

April 10, 2015, in the *Physician's Briefing and Doctor's Lounge*
Art Program Hones Med Students' Visual Observation Skills
Craig Klugman, Department of Health Sciences

April 13, 2015, in the *NurseZone.com*
Nursing Students Learn the Art of Observation
Craig Klugman, Department of Health Sciences

April 14, 2015, in the *ABC News*
Taxes 2015: The Science of Procrastination Explains Why We Delay
Joseph Ferrari, Department of Psychology

April 14, 2015, in the *Popular Science*
Do Babies Express Emotions In The Same Way Adults Do?
Linda Camras, Department of Psychology

April 20, 2015, in the *Democrat & Chronicle (Rochester, NY)*
Women at Work: Procrastination sabotages productivity
Joe Ferrari, Department of Psychology

April 28, 2015, in the *Chicago Tribune*
Locals tap into their creative side at Patty Turner
Olya Glantsman, Department of Psychology

May 6, 2015, in the *Science Blog*
Physically experiencing scientific concepts aids comprehension of it
Susan Fischer, Department of Physics

May 7, 2015, in the *Reuters*
CORRECTED-J&J to consult ethicists on requests for experimental drugs
Craig Klugman, Department of Health Sciences

May 7, 2015, in the *Mother Nature Network*
Procrastination is killing you, literally
Joseph Ferrari, Department of Psychology

May 7, 2015, in the *United Healthcare*
Drugmaker creates panel to advise on 'compassionate use' requests
Craig Klugman, Department of Health Sciences

May 7, 2015, in the *BioSpace*
Johnson & Johnson Taps Ethicists to Weigh Compassionate Use Requests
Craig Klugman, Department of Health Sciences

May 8, 2015, in the *San Diego Reader*
I live with dinosaurs
Kenshu Shimada, Department of Biological Sciences

May 14, 2015, in the *Homeland Security Newswire*
Students who take a hands-on approach to learning perform better in science
Susan Fischer, Department of Physics

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May 21, 2015, in the *Nurse.com*
Art helps nursing students strengthen their observation skills, DePaul study finds
Craig Klugman, Department of Health Sciences

May 28, 2015, in the *MTV News*
This Is Why You Want To Dye Your Hair A Rainbow Color Now More Than Ever
Midge Wilson, Department of Psychology

May 29, 2015, in the *WiseBread*
The Easy Way to Cure Chronic Procrastination You Should Try Now
Joe Ferrari, Department of Psychology

June 2015, 2015, in the *ACP Internist*
Changing thinking on chronic fatigue
Leonard Jason, Department of Psychology

June 4, 2015, in the *Daily Mail*
Now THAT's a sea monster: 20ft-long shark hunted oceans 100 million years ago - and one back bone is bigger than a human hand
Kenshu Shimada, Department of Biological Sciences

June 3, 2015, in the *LiveScience, CBS News and Yahoo! News*
20-Foot Monster Shark Once Trolled Mesozoic Seas
Kenshu Shimada, Department of Biological Sciences

June 4, 2015, in the *Glamour.com and iPick.ca*
Why Are We So Obsessed With People Taking Off Their Makeup?
Midge Wilson, Department of Psychology

June 8, 2015, in the *Healthline*
'Right to Try' Movement Wants Terminally Ill to Get Experimental Drugs
Craig Klugman, Department of Health Sciences

June 3, 2015, in the *Morning Wave in Busan*
Quarantine is critical in stopping MERS
Craig Klugman, Department of Health Sciences

June 9, 2015, in the *Opposing Views*
Right-To-Try Movement Looks to Grant Terminally Ill Patients Access to Experimental Drugs
Craig Klugman, Department of Health Sciences

June 15, 2015, in the *U.S. News & World Report*
Data Mining Finds Lessons About Procrastination in College
Joseph Ferrari, Department of Psychology

June 16, 2015, in the *Reuters and Yahoo! News*
Pope's climate change encyclical could sway U.S. opinion: scientists
Mark Potosnak, Department of Environmental Science and Studies

June 18, 2015, in the *Chicago Tribune*
Pope Francis makes Chicago Catholics see green
Mark Potosnak, Department of Environmental Science and Studies
Gina Orlando, School of New Learning

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June 18, 2015, in the *PopSugar*
What You Never Knew About Procrastination and How to Cure It
Joe Ferrari, Department of Psychology

June 21, 2015, in the *Gulf News*
How to stop procrastinating... now!
Joe Ferrari, Department of Psychology

June 19, 2015, in the *Archdiocese of Chicago Radio*
Pope's Encyclical on the Environment
Mark Potosnak, Department of Environmental Science and Studies

June 23, 2015, in the *WTTW's "Chicago Tonight"*
Catholics and Climate Change
Mark Potosnak, Department of Environmental Science and Studies

July 10, 2015, in *Palo Alto Online*
Chronic fatigue syndrome saps its victims, but new research may find the cause
Leonard Jason, Department of Psychology

July 16, 2015, in *Reuters*
Fulfilling 'three wishes' helps ICU staff honor dying patients
Craig Klugman, Department of Health Sciences

July 24, 2015, in the *Chicago Sun-Times*
Cupich: 'We have this earth on loan'
Mark Potosnak, Department of Environmental Science and Studies

July 27, 2015, in *Entrepreneur*
7 Life Hacks for Being Productive Instead of Just Busy
Joseph Ferrari, Department of Psychology

July 28, 2015, in *Asia One*
10 tips to stop dilly-dallying
Joseph Ferrari, Department of Psychology

July 29, 2015, in *Chicago Innovation*
DePaul's Sustainability Efforts Aim To Produce Eco-Friendly Entrepreneurs
James Montgomery, Department of Environmental Science and Studies

July 31, 2015, in *Business Insider*
7 ways to stop being 'busy' and actually start being productive
Joe Ferrari, Department of Psychology

July 31, 2015, in *Journal Review*
Putting off procrastination
Joe Ferrari, Department of Psychology

Aug. 6, 2015, in *Lead Doc*
Developing an Eye for Detail with Art and Science
Craig Klugman, Department of Health Sciences

Aug. 18, 2015, in *Conversation Agent*
Why do we procrastinate?
Joe Ferrari, Department of Psychology

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Aug. 21, 2015, in the *Daily Mail (Georgia Newsday)*
Seashell search finds giant tooth from the mouth of a 18m long megalodon SUPERSHARK that terrorised oceans 100 million years ago
Kenshu Shimada, Department of Biological Sciences

Aug. 26, 2015, in *Pop Sugar*
What you never knew about procrastination and how to cure it
Joe Ferrari, Department of Psychology

Sept. 2, 2015, in the *Huffington Post*
Ashley Madison Hack Creates Ethical Conundrum For Researchers
Gerald Koocher, Dean of the College of Science and Health, Department of Psychology

Sept. 3, 2015, on YouTube
Summit on Fatigue and Health
Lenny Jason, Department of Psychology

Sept. 10, 2015, in *Dhaka Insider*
Procrastination- When It Might Just Be Too Late
Joe Ferrari, Department of Psychology

Sept. 11, 2015, in *MedPage Today*
Chronic Fatigue: A Call for Real Answers to a Real Disease
Leonard Jason, Department of Psychology

Sept. 17, 2015, in *National Geographic*
“False Megamouth” Shark Pioneered the Plankton-Feeding Lifestyle
Kenshu Shimada, Department of Biological Sciences

Sept. 22, 2015, in *Techno*
Substance abuse recovery odds increase in a community setting
Leonard Jason, Department of Psychology

Sept. 22, 2015, on Phys.org
Researchers discover new lineage of prehistoric, plankton-eating sharks
Kenshu Shimada, Department of Biological Sciences

Sept. 22, 2015, on WJFW
Counting cones: Researcher seeks understanding of white spruce mast events in the Northwoods
Jalene LaMontagne, Department of Biological Sciences

Sept. 23, 2015, on Sci-News.com
Pseudomegachasma: New Genus of Prehistoric, Planktivorous Sharks Discovered
Kenshu Shimada, Department of Biological Sciences

Sept. 25, 2015, in *Forbes*
The Best Treatment For Drug Addicts Is Community
Leonard Jason, Department of Psychology

Sept. 25, 2015, in *Forbes*
Fossil Friday: Big Mouth Sharks, Parrot-Beaked Dinosaurs, And A Surprise Whale
Kenshu Shimada, Department of Biological Sciences

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Sept. 29, 2015, on WBEZ
Putting together a team to travel to Mars
Suzanne Bell, Department of Psychology

Sept. 30, 2015, in *Bankrate*
Making life's final decisions simpler
Craig Klugman, Department of Health Sciences

Sept. 30, 2015, in *Houston Style*
Texans using advance directives for more than refusing care
Craig Klugman, Department of Health Sciences

Oct. 5, 2015, on *Chicago Tonight*
Mission Impossible? 'The Martian' Aims for Realism in Outer Space
Suzanne Bell, Department of Psychology

Oct. 14, 2015, in *Daily Worth*, *The Washington Post*, and *TIME*
5 Sneaky Ways Self-Doubt Holds Us Back
Joseph Ferrari, Department of Psychology

Oct. 20, 2015, in *Ebony*
How to Stop Procrastinating and Get Financially Fit Now
Joseph Ferrari, Department of Psychology

Oct. 22, 2015, on the Virology blog
TRIAL BY ERROR: The Troubling Case of the PACE Chronic Fatigue Syndrome Study
Leonard Jason, Department of Psychology

Oct. 26, 2015, in *Brain Decoder*
Horror-Movie Lovers May Have a Better grasp on Reality
Leonard Jason, Department of Psychology

Oct. 26, 2015, in the *Chicago Tribune*
Slack, Jira, Asana: The new language of worker productivity
Suzanne Bell, Department of Psychology

Nov. 2, 2015, on BuzzFeed
This New War On Drugs Is One We Might Actually Win
Leonard Jason, Department of Psychology

Nov. 10, 2015, in *Mosaic*
Fighting over fatigue
Leonard Jason, Department of Psychology

Nov. 10, 2015, in *Mosaic*
How to diagnose chronic fatigue syndrome
Leonard Jason, Department of Psychology

Nov. 11, 2015, in *Entrepreneur*
Why Your procrastination excuses don't cut it
Joe Ferrari, Department of Psychology

Nov. 12, 2015, in *Check Orphan*
The Battle To Finally Understand Chronic Fatigue Syndrome
Leonard Jason, Department of Psychology

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Nov. 14, 2015, in *Real Clear Science*
The Battle over Chronic Fatigue
Leonard Jason, Department of Psychology

Dec. 3, 2015, in *Think Progress*
Why Publicly Shaming Bigots Won't Make People Less Racist
Joseph Ferrari, Department of Psychology

Dec. 4, 2015, in the *Huffington Post*
How to Infuse Social Media into a Conference of Tech-Naïve Attendees
Mona Shattell, School of Nursing

Dec. 11, 2015, in the *Huffington Post*
'Tis the Season for At-Risk Drinking: A Reminder to Health Care Providers -- Screen, Intervene and Refer
Mona Shattell, School of Nursing



Enrollment, Retention & Outcomes

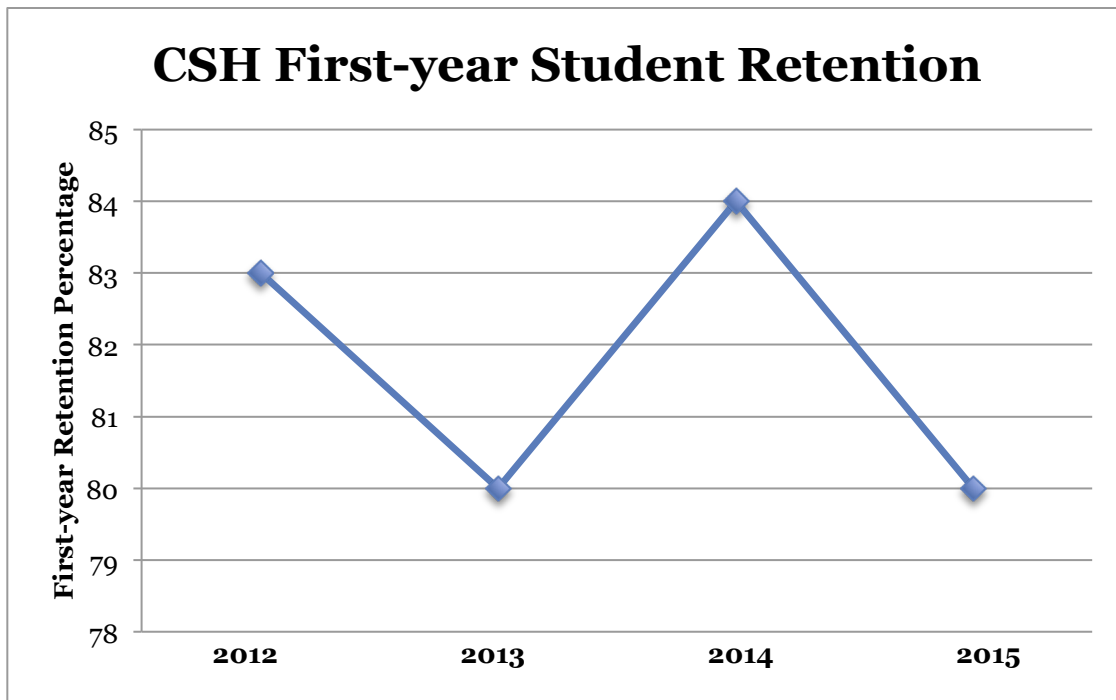
CSH Student Enrollment Data, First-year Retention Data, and Career Outcomes for Graduates

Enrollment in the College of Science and Health continues to show growth.

Enrollment in CSH programs increased by **26 percent** from Fall 2011 to Fall 2015. The CSH had a 1 percent undergraduate enrollment increase from Fall 2014 to Fall 2015.

The CSH enrolled **2,668 freshmen for Fall 2015**, making the CSH the college with the second highest freshman enrollment in the university. The CSH enrolled **728 graduate students for Fall 2015**; approximately 75 percent of CSH graduate students attend full time.

Approximately 80 percent of first-year CSH students enrolling in 2014 remain in the CSH in 2015. The CSH first-year retention rate has been between 80 and 84 percent since 2012.



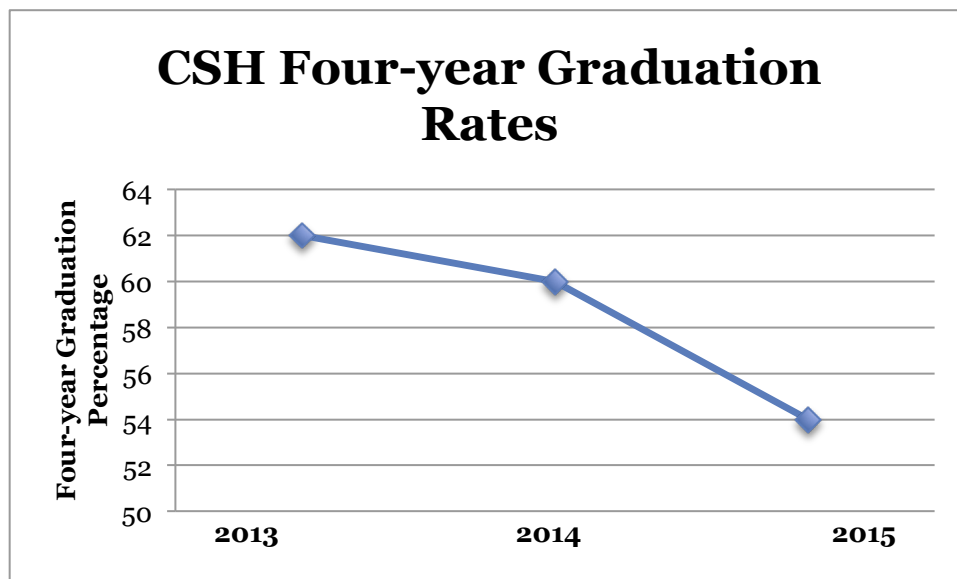
Top 10 Freshman Majors	
Digital cinema	189
Health sciences	153
Accounting	146
Marketing	130
Psychology	119
Biological sciences	106
Computer game development	103
Computer science	94
Management	90
Business administration	82

The **Health Sciences major** is the second most popular major chosen by incoming freshmen at DePaul University. **Psychology** is the fifth most popular major designated by entering freshmen, and **Biological Sciences** is the sixth most popular choice for incoming DePaul students.

In addition, 332 students are undecided.

Graduation

During 2015, **54 percent** of CSH students graduated from DePaul University in four years. The university average for undergraduate graduation in 2015 is 4.3 years.



Post-Graduation

2014 CSH Graduates Employed/In Graduate School 6 months after graduation

Health Sciences	95%
Psychology	92%
Biology	92%
Environmental Science & Studies	91%
Chemistry	89%
Mathematics	87%
Physics	80%

The Career Center tracks post-graduation employment for each of the university's colleges, including full College of Science and Health Employment Outcomes.

92% of 2014 CSH bachelor's degree recipients were employed or in graduate school six months after degree completion.

72% of bachelor's degree recipients are in full-time roles in a job related to their degree

20% of employed graduates are in entrepreneurial, contract, or freelance roles

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