Welcome to the Division of Science, IUPUC’s largest academic unit. Our programs and courses cover a wide range of scientific disciplines. At the graduate level, we offer the Master of Arts in Mental Health Counseling. For undergraduates, we provide the Bachelor of Science and Bachelor of Arts degrees in psychology as well as minors in biology, chemistry, and mathematics. We also teach courses in physics, geology, and astronomy.

The Division of Science, however, is much more than a list of programs and classes. We are a close-knit group of students, faculty, and staff who learn and work together. As a student on our intimate campus, you form lifelong friendships with your fellow students. The personal attention you receive from our Big Ten-caliber faculty offers you an exceptional education. Our caring staff is there for you with individualized academic and career counseling. After graduation, you benefit from your lasting professional relationships with our faculty and staff.

Thank you for taking a look at our newsletter. We know you’ll enjoy reading about the wonderful accomplishments of our students, faculty, and staff. We are also proud of how our faculty, staff, and students are sharing their expertise by serving their disciplines and the community.

Sincerely,

George Towers, Ph.D.
Head, Division of Liberal Arts
Interim Head, Division of Science
Professor of Geography
STUDENT SUCCESS

STUDENT AWARDS

- Psychology students Megan Taylor, Rodney Burton, and Caitlyn Ramsey were recognized for their academic excellence. Megan received the Columbus Regional Health Outstanding Student in Science Award, Rodney is this year’s Outstanding Student in Psychology, and Caitlyn was named Promising Future Psychologist. (For more on Megan and Rodney, please see Student Research below.)

- Sabrina Schipper is the recipient of the 2015 Jack P. Young Chemistry Award. This year’s award presentation was made by Jack’s widow, Priscilla Young. In math, Kristina Linville was named the Outstanding Student in Applied Calculus and Hong Thi Phuong Tran the Outstanding Student in Calculus.

STUDENT RESEARCH

- Faculty in the Division of Science are committed to involving students in their research. IUPUC’s Office of Student Research (OSR), directed by Julie Goodspeed-Chadwick, provided research funding for five science students in 2014-15. The students presented their work at the OSR’s annual exhibition held April 21, 2015 in the Columbus Learning Center. Psychology students Rodney Burton and Megan Taylor received mentoring from Mark Jaime. Rodney investigated the effects of feedback on short term memory performance while Megan studied children’s ability to recognize first-person action. Megan also presented this project at the IU Undergraduate Research Conference (IUURC) in Blooming- ton in November, 2014 and at the 45th Annual Meeting of the Jean Piaget Society in Toronto, Canada in June, 2015.

- Like Mark, biologist Luke Jacobus mentored a pair of student researchers, Autumn Fox and Andy Usher. Autumn is looking at self-sustainable gardening with an eye towards developing a pilot plot on the IUPUC grounds. Andy is collaborating with Luke on his mayfly research. Together, they are identifying mayfly species in Minnesota, a location rich in mayfly diversity yet heretofore understudied. Autumn, Andy, and Luke also shared their findings at the 2015 meeting of the Indiana Academy of Science.

- Heather Johnson continued her research with J.D. Mendez on the chemical properties of chitin. In 2014-15, Heather and J.D. explored the relationship between chitin fiber morphology and mechanical strength. They also presented their work at last fall’s IUURC. Heather and J.D. published the results of their work along with Heather’s fellow student Jordan McQueen and biology professor Jim Clack in a 2015 article in the Journal of Chitin and Chitosan Science.

PSYCHOLOGY CAPSTONE STUDENTS SHARE THEIR FINDINGS

- The Capstone Psychology Poster Session was held on April 20. More than twenty students presented their research projects along the Columbus Learning Center’s Main Street. Topics ranged from Personality and Health to Gender Differences in different forms of Memory to Relationship Satisfaction. The posters represent two semesters’ worth of coursework which included proposal development, data collection, analysis, and oral and written presentation. Kimdy Le and Joan Poulson taught the capstone course in spring, 2015 and students also received mentoring from psychology faculty Kathy Compton, Gary Felsten, and Mark Jaime.
TEACHING & ACCOMPLISHMENTS

▪ BARBARA HASS-JACOBUS EARNED TEACHING AWARD: Barbara Hass-Jacobus, Lecturer in Biology, received her second IU Trustees Teaching Award. Barbara’s excellence in teaching extends beyond the classroom to include pedagogical research, advising, and grantsmanship. In 2014, she made two conference presentations on the scholarship of teaching and learning. For her advising expertise, Barbara was recognized with a Friend of Advising award from IUPUC’s Professional Advisors Council. Barbara also led the division’s successful efforts to secure a total of $107,910 in grant support for the biology program. In 2014, we received $49,910 from the Carl Marshall Reeves and Mildred Almen Reeves Foundation for the general biology laboratory. The purchases will enable IUPUC to offer BIOL-K 325: Cell Biology Laboratory and BIOL-K 357: Microbiology Laboratory. Items include fluorescence microscopes to study structures inside of cells, a laminar air flow bench to provide the sterile working environment critical to cell and tissue culture, and a spectrophotometer to measure substances in a solution. In 2015, the Reeves Foundation granted an additional $50,000 for renovations to the anatomy and physiology lab. This money will go in part towards the construction of cabinetry to house the program’s anatomy models. The Haddad Foundation provided $8,000 to acquire a human skeleton to be used in anatomy and physiology instruction. Barbara received help with the grants from Jim Clack, Luke Jacobus, Matt Springmeyer, George Towers, and Stacie Vaughan. Cindy Felsten, Marsha VanNahmen and Brenda Vogel of IUPUC’s development office served as instrumental liaisons with the Reeves Foundation.

▪ CASE MANAGEMENT CERTIFICATE GOES ONLINE: Psychology faculty Kathy Compton and Joan Poulsen are leading our efforts to put IUPUC’s certificate program in Case Management online. Case managers coordinate services on behalf of individuals or families. They typically work in mental health facilities, hospitals, clinics, community social service agencies, and government offices. IUPUC will be the first program in Indiana to provide this valuable credential online. For this reason, IU Online has invested $15,000 to train Kathy, Darrin Carr, Nikki Combs, Rich Lamborn, and Shannon Smith to develop online versions of the courses that comprise the program.

▪ JIM CLACK USES SABBATICAL TO ADVANCE ONLINE BIOLOGY: Biology professor Jim Clack completed a sabbatical project in fall, 2014 to advance online instruction. Jim explored and evaluated software applications to create online simulations of biology laboratory student exercises. He used his sabbatical to address the widely felt need for effective online delivery of lab material. His creation of online biology classes makes a very significant contribution to IUPUC’s ability to serve our students. The longtime editor of Bioscience: Journal of College Biology Teaching, Jim is a leader in the field of biology education.

▪ 3-D PRINTING AND CHEMISTRY EDUCATION: J.D. Mendez is innovating with 3-D printing technology to improve chemistry education. Based on preliminary data indicating that students learn introductory chemistry better with physical models, he is developing 3-D prototypes to complement basic chemistry topics. For example, J.D. has used 3-D printing to create model atoms and molecules that show aspects of chemical bonding. J.D. also provided a demonstration of the educational uses of 3-D printing for the IUPUC community on May 1, 2015. J.D. is an assistant professor of chemistry.

▪ MENTAL HEALTH COUNSELING PROGRAM RECEIVES ASSESSMENT SUPPORT: Cheryl Warner received $2,490 in grant funding from IUPUI for program assessment planning. The grant will support the MHC program’s construction of an assessment plan that a) aligns its training mission and competencies...
TEACHING ACCOMPLISHMENTS... (cont’d.)

with national and state requirements, b) provides evidence of student learning, and c) determines the developmental progress of student learning to enhance program development and provide evidence of student learning. This project will conduct preliminary analyses on existing data collected at pre-admission and clinical field experience to determine the feasibility of the data as assessment indicators.

▪ MATH FACULTY EXPLORE UNIVERSAL DESIGN FOR LEARNING PRINCIPLES: Vidhu Bhatnagar, Leigh Britt, Andrea Gillett, Carolyn Guthrie, Trisha Heathcote, Rodney Lynch, and Jerry Yager participated in the Collaboration for Increasing Student Success program to advance math instruction. The program, held at the Columbus Learning Center over the summer of 2015, provided instructors with strategies to incorporate Universal Design for Learning principles to better engage students’ learning styles and improve learning outcomes. Cathy Brown, Head of IUPUC’s Division of Education, was instrumental in organizing the program with collaboration from the Bartholomew Consolidated School Corporation, Columbus’ Community Education Coalition, and Ivy Tech.

▪ PSYCHOLOGY CLASS BRINGS IUPUC TO JENNINGS COUNTY: Through a new partnership with the Jennings County School Corporation (JCSC), IUPUC is bringing PSY-B 110 Introduction to Psychology to North Vernon this fall. Jennings County High School students will take the IUPUC class from Kathy Compton at the Jennings County Education Center. Terry Sargent, JCSC Superintendent, planned the initiative with Joan Poulsen and George Towers and has enlisted financial support from Jennings County to offset students’ tuition. Jennings County HS graduate and current IUPUC student, Megan Ferguson, will be Kathy’s teaching assistant.

FACULTY RESEARCH

▪ GARY FELSTEN AND KIMDY LE PROMOTED: In 2015, Gary Felsten and Kimdy Le received promotions for their excellence in research. Gary was promoted to professor of psychology. Gary’s wide-ranging research career began with his interest in sensory coding in the visual system and neural control of the cardiovascular system. More recently, he has studied relationships between stress, personality factors, coping, and physical and psychological well-being. Currently, he investigates environments that promote stress recovery and attention restoration. Prior to his appointment as Associate Dean for Academic Affairs in 2011, Gary led the Psychology program and the Division of Science. Gary is one of IUPUC’s most senior faculty members, arriving in Columbus in 1993. His Ph.D. is in Psychology from Purdue University. Kimdy earned tenure and promotion to associate professor of psychology. Kimdy’s research focuses on the associations between personality and outcomes in the real world as well as processes associated with well-being. He is an expert in research methods and statistical analysis. His work has appeared in leading journals including the Journal of Personality and Social Psychology, the Journal of Personality, and Personality and Individual Differences. Kimdy joined the IUPUC faculty in 2007 and received the Ph.D. in Personality Psychology from Michigan State University in 2009.

▪ CONGRATULATIONS TO DR. RODNEY LYNCH: Rodney Lynch successfully defended his doctoral dissertation submitted to IUPUI’s Department of Mathematical Science on July 1, 2015. He explores his research interests in number theory, elliptic curves and algebra in his dissertation “Arithmetic on Normal Forms of Elliptic Curves.” He also has a scholarly interest in the mathematics involved in writing basic math problems for college classes. He formally received the Ph.D. degree in August, 2015.

▪ MARK JAIME RECEIVES RESEARCH FUNDING: Mark Jaime’s research into Autism Spectrum Disorder (ASD) has been recognized with two grant awards this year. The Hazel Teegarden Foundation designated $1,000 to offset the costs of collecting first-person sensory information. Mark and his student research assistant, Megan Taylor, are using the information to investigate how toddlers and children with ASD
FACULTY RESEARCH (cont’d.)

process first-person information, and how it might play a role in social impairment. They intend to extend the theoretical framework on the origins of autism so that better screening methods can be developed for at-risk infants. The goal is that this new area of research may help improve the early detection of ASD. Their research is conducted in IUPUC’s Perceptual Development Lab. Mark also received a highly competitive IUPUI Release Time for Research grant for the 2015-16 academic year. He will use the release time to prepare a grant proposal to the National Institutes of Health (NIH). Mark hopes to receive NIH funding to investigate his hypothesis that brain connectivity indicates the likelihood of ASD in very early childhood.

- **ROOM FOR RESEARCH**: Biologist Luke Jacobus is among the world’s leading experts on mayflies, an important indicator species for climate change. He received institutional support for his research through the relocation of his office to Campus Center 237. This larger room not only accommodates entomological research materials including the Purdue University Ephemeroptera Specimen Collections and Library which Luke curates, but also provides a workspace for his student research collaborators.

- **FACULTY DEVELOPMENT GRANTS**: In 2014-15, several division members received grants to support their research efforts. Cheryl Warner was awarded an Overseas Conference Grant of $1,500 from the IU Office of the Vice President for International Affairs to make a research presentation at the World Conference for Psychotherapy in Durban, South Africa last August. Four division members received IUPUC Faculty Development Fund Awards. Darrin Carr was funded to participate in the 2015 Global Conference of the National Career Development Association, Mark Jaime received an award to support his Autism Spectrum Disorder research, Kimdy Le used his award to present research findings at the meetings of the Association for Psychological Science, the American Family Therapy Academy, and the Association for Research in Personality, and Anibal Torres Bernal’s award helps cover his enrollment in the IUPUI Next Generation 2.0 leadership development program.

2014-15 RESEARCH PUBLICATIONS

- **Gary Felsten:**

- **Luke Jacobus:**

- **Mark Jaime:**

- **J.D. Mendez, Jim Clack, and IUPUC students Heather Johnson and Jordan McQueen:**

- **Joan Poulsen:**
2014-15 RESEARCH PUBLICATIONS (CONT’D.)

▪ Anibal Torres Bernal:

SERVICE

NEW LEADERSHIP ROLES IN MENTAL HEALTH COUNSELING

▪ The faculty, staff, and students are grateful to Cheryl Warner, Associate Professor of Psychology and Mental Health Counseling (MHC), for her service as Director of IUPUC’s Master of Arts Program in MHC. Cheryl came to IUPUC from Clemson University in 2012 to be the founding Director. A true servant leader, Cheryl has been invaluable in program’s establishment. She has played a leading role in all aspects of the program’s successful growth including curriculum development, student recruitment, assessment, and community involvement. Cheryl also served as Interim Head of the Division of Science in 2013. She has decided to dedicate more time to her tenure process.

Anibal Torres Bernal is the Director of the MHC Program effective August, 2015. Anibal is an Assistant Professor of Psychology and MHC. Prior to joining the IUPUC faculty in 2012, he gained experience at the University of Nevada Las Vegas, Drake University, Fairfield University, and SUNY Empire State College. His specialization is in marriage and family therapy and he is a member of the American Family Therapy Academy. Darrin Carr, Clinical Assistant Professor of MHC, will serve as the program’s Clinical Coordinator for student training activities at a growing number of practicum and internship sites. Darrin, who is an Indiana licensed Health Service Provider in Psychology, earned the Ph.D. in Counseling Psychology and School Psychology from Florida State University.

IUPUC MILESTONES

▪ Five Division of Science faculty and staff members were celebrated at the fall, 2014 Service Anniversary Recognition ceremony. Kathy Compton, who completed her 15th year at IUPUC in 2014 as a Lecturer in psychology, has also served as Psychology Program Director, Interim Head of the Division of Science, and Coordinator of Unaffiliated Disciplines. Kathy graduated from Columbus High School and completed a bachelor’s degree at IUPUC. She then earned a Masters of Social Work from IUPUI. A recipient of the IU Trustees Teaching Award, Kathy has innovated curriculum and delivery methods for IUPUC. Outside of IUPUC, Kathy is involved in equine assisted psychotherapy and 4-H programs. She has served as a consultant for human service agencies in six counties and for the Indiana Department of Child Services. Currently, Kathy is assisting the state Department of Mental Health to coordinate mental health disaster response.

▪ Rodney Lynch and Stacie Vaughan were recognized for their ten years of service to IUPUC. After finishing his undergraduate degree at Wabash College, Rodney earned the M.S. in Math from Cornell University. As described above, Rodney completed the Ph.D. at IUPUI in 2015. Originally from Crown Point, Rodney taught at IU Northwest prior to IUPUC. A Lecturer in Mathematics, his excellence in teaching has earned him an IU Trustees Teaching Award. Rodney has previously served as Mathematics Program Coordinator.

Stacie is the Administrative Assistant for the Division of Science. Originally from Columbus, Stacie graduated from Columbus East High School and earned an Associate’s Degree in childhood development from Ivy Tech. Prior to joining IUPUC, she worked as a pre-school teacher then as a teacher’s assistant in the Learning Resource Center at Taylorsville Elementary and Columbus North High School.

Finishing their fifth years at IUPUC in 2014 were Andrea Gillett and Joan Poulsen. Andrea is the Math Program Coordinator. She received her bachelor’s and master’s degree from Western Illinois University. Prior to joining IUPUC, she taught math at Western Illinois University, Carl Sandburg College,
SERVICE (cont’d.)

and Macomb (Illinois) High School. Her excellence in teaching has been recognized with three nominations from the Division of Science for the IUPUC Outstanding Full Time Faculty Teaching Award. Joan received tenure and promotion to Associate Professor of Psychology in 2014 and is Psychology Program Director. She received her undergraduate degree in her hometown from Indiana University-Purdue University Fort Wayne. Her master’s and Ph.D. are from Michigan State. A social psychologist, Joan researches family ostracism and understudied forms of prejudice such as anti-fat prejudice. During her IUPUC career, Joan has been a leader in student engagement efforts including the Bridge Program.

AARON MILLER EARNS STAFF AWARD

- Aaron Miller, the academic advisor for the Division of Science, received the IUPUC Employee of the Month Award for November, 2014. Joan Poulsen nominated Aaron, writing that “Aaron is a dedicated academic advisor who is committed to giving students optimal advising for their unique academic and personal situations. He has an impeccable memory for students’ names and pertinent information; he advocates for students with complex transfer situations; and he helps to provide career advising. Finally, Aaron has become increasingly engaged in improving curriculum, and clarifying academic policies to improve student success. Aaron is a vital part of the Division of Science, and we appreciate his daily efforts for our students.”

ANIBAL TORRES BERNAL REWARDED FOR DISCIPLINARY SERVICE

- Anibal Torres Bernal, Assistant Professor of Mental Health Counseling and Psychology, was honored with membership in the American Family Therapy Academy. His selection reflects his many contributions to his discipline. For example, he is on the Advisory Committee of the American Association for Marriage and Family Therapy’s Minority Fellowship Program and serves as a mentor to program fellows. Anibal is also a regular site visitor for the Commission on Accreditation for Marriage and Family Therapy Education.

FOUR FACULTY MEMBERS PARTICIPATE IN LEADERSHIP DEVELOPMENT

- Four division faculty were selected for leadership training experiences this year. Cheryl Warner completed the yearlong Leadership Bartholomew County course in spring, 2015. The program focuses on gaining an in-depth understanding of the community, networking, and exploring leadership philosophies. Each year, approximately 30 prominent local leaders complete the program together.

  Kimdy Le, Joan Poulsen, and Anibal Torres Bernal were chosen to participate in IUPUI’s Next Generation 2.0 leadership initiative. The program is intended to retain and develop a diverse pool of talent to lead the university into the future, and will prepare women and underrepresented minority faculty and staff for positions of leadership and opportunities for advancement. Anibal, Joan, and Kimdy will attend monthly sessions during 2015-16 on topics ranging from budgeting to strategic planning.

HIGH SCHOOL STUDENTS EXPLORE CAREERS

- During the spring, 2015 semester, Darrin Carr and Cheryl Warner led the Mental Health Counseling (MHC) program’s iGrad Career Exploration for approximately 100 area high school students. The program began with a daylong event at the Columbus Learning Center on February 27. As part of Darrin’s career counseling classes, MHC graduate students Brittany Elliott, Lori Kooiman, Kate Meade, Alan Murray, Will Roush, Jeremiah Soto, Abigail Taylor, Heather Turner, Nate Walsh, and Laura Walter worked with iGrad participants in March and April to prepare them for effective career decision-making.

CONSTITUTION DAY

- Luke Jacobus, along with IUPUC history lecturer Doug Gardner, led local Constitution Day events at the Columbus Learning Center last September 17. Luke’s wide-ranging intellectual interests include local history. Doug spoke on one of his many areas of expertise, the Civil War era and its relevance to constitutional issues.
SERVICE (cont’d.)

FACULTY SERVE AS SCIENCE FAIR JUDGES
- Darrin Carr, Jim Clack, Guillermo Garcia, and Anibal Torres Bernal served as judges at the 2015 Hoosier Science and Engineering Fair. The event was held at IUPUI on March 21. Over two hundred middle and high school students from around Indiana presented their work.

IUPUC RECEIVES FUNDING FOR FACULTY MENTORING
- Peer mentoring is an important service for both students and faculty. IUPUC received $4,642 in matching grant funds from IUPUI’s Mentoring Academy to pilot a 2015-16 program for pre-promotion faculty who, on the basis of their gender, race, ethnicity, or social class, are underrepresented in higher education. Mentoring will focus on forging a successful career in the uniquely challenging world of academia. Darrin Carr, Joan Poulsen, Anibal Torres Bernal, and George Towers authored the grant along with colleagues Aimee Zoeller from the Division of Liberal Arts and Cheryl Crisp from the Division of Nursing. Kathy Compton, Barbara Hass-Jacobus, and Kimdy Le will be among the pilot program mentors. Mentees include five members of the division: Darrin Carr, Mark Jaime, J.D. Mendez, Stephanie Scifres, and Matthias Youngs.

ON A PERSONAL NOTE
- Two Division of Science families welcomed their first children in 2014. Jack Alexander Mendez was born to J.D. and Julie Mendez on October 3. On December 14, Mark Jaime and Charmaine Mullins-Jaime celebrated the arrival of their daughter Scarlett.

FACULTY AND STAFF
- Darrin L. Carr, PhD
  Clinical Assistant Professor
  Psychology and Mental Health Counseling
  Clinical Coordinator, MHC
- James W. Clack, PhD
  Professor, Biology
- Kathy A. Compton, MSW
  Lecturer, Psychology
- Gary Felsten, PhD
  Associate Dean for Academic Affairs
  Professor, Psychology
- Guillermo Garcia, PhD
  Lecturer, Physics
- Andrea L. Gillett, MS
  Coordinator, Mathematics Program
  Lecturer, Mathematics
- Barbara L. Hass-Jacobus, PhD
  Coordinator, Biology Program
  Lecturer, Biology
- Luke M. Jacobus, PhD
  Assistant Professor, Biology
- Mark Jaime, PhD
  Assistant Professor, Psychology
- Kimdy Le, PhD
  Associate Professor, Psychology
- Rodney N. Lynch, PhD
  Lecturer, Mathematics
- James D. Mendez, PhD
  Coordinator, Chemistry Program
  Assistant Professor, Chemistry
- Aaron Miller, MA
  Academic Advisor
- Joan R. Poulsen, PhD
  Director, Undergraduate Psychology Program
  Associate Professor, Psychology
- Stephanie L. Scifres, PhD
  Clinical Assistant Professor, Psychology
  Mental Health Counseling Program
- Matthew L. Springmeyer, MS
  Laboratory Technician
- Anibal Torres Bernal, PhD
  Assistant Professor, Psychology, MHC
  Director, Mental Health Counseling Program
- George W. Towers, PhD
  Division Head, Liberal Arts
  Interim Division Head, Science
  Professor, Geography
- Stacie S. Vaughan
  Executive Administrative Assistant
- Cheryl Warner, PhD
  Associate Professor of Psychology
  and Mental Health Counseling, MHC
- Matthias L. Youngs, PhD
  Assistant Professor, Mathematics