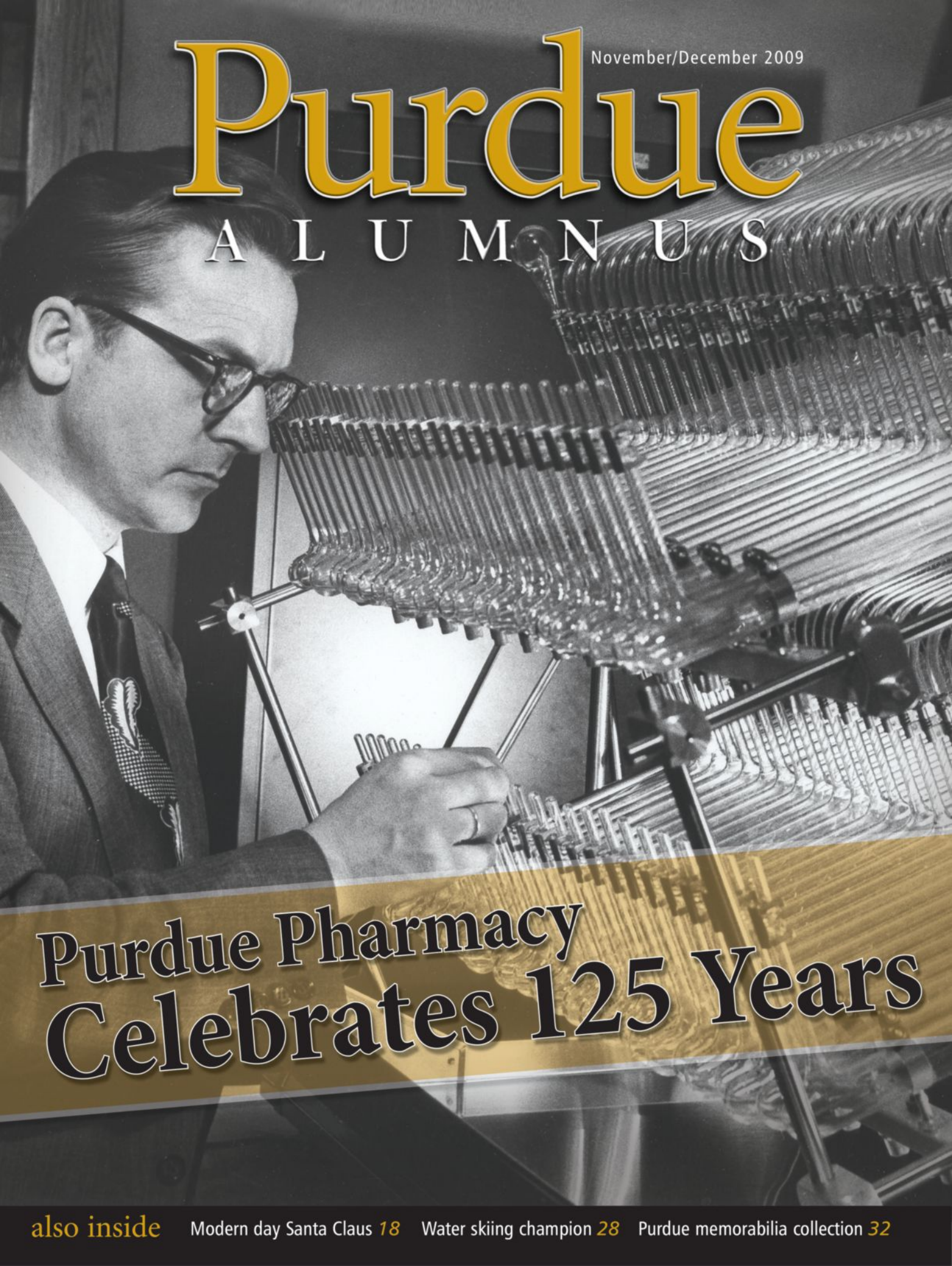




Purdue

November/December 2009

A L U M N U S

Purdue Pharmacy
Celebrates 125 Years

also inside Modern day Santa Claus 18 Water skiing champion 28 Purdue memorabilia collection 32



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welcome *from Kirk*

Alumni Leadership



John Hardin Jr. and Kirk Cerny

Throughout Purdue's celebrated history, dedicated, enthusiastic, and competent alumni have served along with faculty, staff, and student leaders to ensure a prosperous course for the University. From successful campaigns to recent jumps in national and world rankings, alumni leadership and support is vital to a strong institution. At the center of our leadership is Purdue's Board of Trustees, nine alumni and one student leader, who set policy and consistently provide direction to the University.

It is my pleasure to report that one who has already committed longstanding support, John Hardin of Danville, Indiana, has been nominated by your Purdue Alumni Association Board of Directors to serve another term as trustee on the Purdue University Board of Trustees. Hallmarks of John's leadership are superb talent, tireless effort, and thoughtful approaches to everything that continuously improves Purdue and her long-term viability. Over the last 17 years, John has served a very special role as the agriculture trustee for the Purdue Alumni Association. He is especially distinguished by his service as a four-year veteran vice-chairman of the trustees, a role that he just turned over to Mamon Powers of Valparaiso, Indiana. We are most pleased by John's nomination and thank him for all he does to represent alumni commitment and maintain open lines of communication with the leadership, board, and staff of the Purdue Alumni Association. Hail Purdue, John!

A couple of years ago I wrote how pleased I was to hear our Purdue president, Dr. France A. Córdoba say, "Students are alumni from their first Purdue experience." That is music to the alumni director's ears. Since making that statement, a central goal to the University's strategic plan has been "Launching Tomorrow's Leaders;" enhancing student success with careers in a dynamic global society, as well as fostering intellectual, professional, and personal development for lifelong learning.

I'm pleased to report that your Purdue Alumni Association supports this key strategic element by developing young leaders through the Purdue Alumni Student Experience (PASE) group — a group which *has grown to be (by far) the largest student group on campus*. These are current, dues-paying members of the Association, just like you, and they aspire to carry their Purdue experience forward as dedicated alumni interested in seeing Purdue prosper.

Our PASE students learn from day one that their relationship with Purdue should be lifelong and that their personal and professional development will be enhanced by their days on campus in service to our myriad of alumni programs, special events including Homecoming, networking opportunities on campus, and at the Boilermaker Ball, for example. These dedicated students are the future leaders of Purdue Alumni!

In closing, did you notice that I sneaked the Boilermaker Ball in there? 'Tis nearly the season, so I need to shamelessly plug an event where Purdue Alumni leaders come out in droves! This year's event is slated for Friday, February 26, 2010, at the Indiana Roof Ballroom in Indianapolis. The theme is "Get on Your Boots." Yes, a little country flair, there. Don't be confused; it's still a black-tie event. But like always, it is "creative black tie" so there's latitude. Go ahead, try on those sequin ropers! Gents, a black hat might go well with that black tie! You take the lead and show off your stuff. You can find out more about the Boilermaker Ball at www.purduealum.org/boilermakerball. Hope to see you there!

Yours in Purdue,

Kirk R. Cerny
Executive Director and CEO
Purdue Alumni Association

features

18 Modern Day Santa Claus

Philip Koch (M'88) wants to turn Santa Claus, Indiana, into America's Christmas hometown. Now, thanks to Koch's vision, the town just opened its first Christmas store and will be kicking off a five-week Christmas festival in November.

22 Prescription for Success

Throughout its 125-year history of service, Purdue's School of Pharmacy and Pharmaceutical Sciences has helped advance research and education, provided innovative healthcare applications, formed global partnerships, and graduated a myriad of leaders who are making their own contributions.

28 Getting Ripped

Cale Burdick, now faring well on the professional skiing circuit while simultaneously preparing for a professional life in the pharmacy field, hopes his Purdue pharmacy degree will help keep his skiing career in high gear.

32 A Passion for Preserving Purdue's History

In 1995 a Purdue freshman named Chris Pate (EE'99) bought a men's basketball Big Ten Champions pennant to hang in his dorm room in Cary Quad. This was the first item in what is believed to be the world's largest collection of Purdue sports memorabilia of well over 3,000 items.



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53 Lasers help artificial joints and arterial stents

Purdue ALUMNUS

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We'd love to hear from you!

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P
ALUMNI



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you said

First tricycle race

In reading the September/October issue, I noticed a reference by John Oxian to the first tricycle race at Purdue. I am certain that John was not aware of the first tricycle race at the close of the 1951–52 year. Some of the independents in Cary Hall (tired of dodging charging bicycles and what we considered excessive publicity given the 7-day-24 hrs. per day fraternity sponsored bicycle race) got together and decided to sponsor a tricycle race (a rather obvious spoof).

The tricycle race was held on the triangular sidewalk in front of the student union. The rules were simple. Six tricycles were obtained from a generous sponsor. The first lap had to be in the original condition. Then any non-permanent modifications could be made to the trikes. The six units of Cary each sponsored a team and the race lasted for two hours on a Saturday morning.

We were at a loss for what to do for a trophy since we had no money. One of the committee members agreed to “borrow” a brass spittoon from the Lafayette court house. We arranged to have Sally Rand (of the 1932 Chicago World Fair) present the trophy and give the winner a kiss. She was related to one of the committee members and was visiting relatives in Lafayette.

Our unit (Cary SW) won the race, and after having the trophy duly engraved, was proudly on display in our unit’s trophy case for a number of years. Everyone said that it was a lot of fun. I wouldn’t know as

I had to take the first half of the PE exam that day.

*Don Larson (A’52)
Shorewood, IL*

Looking for Purdue Pete

Alumni have been hard at work identifying and contacting all of the past Purdue cheerleaders and Purdue Petes in order to update alumni records and plan a reunion. All 430 cheerleaders have been found but we cannot determine who was Pete in 1962–63 or 1964–65. Please contact me at teckel@earthlink.net if you have any information that could help identify these alumni.

*Tom Eckel (ChE’75, MS ChE’76)
Milford, OH*

Merom celebrates 150 years

The Merom Conference Center is celebrating 150 years of ministry this year. Back in the 1930s, Purdue established the Hoosier Recreation Workshop which has become part of Extension Services. If you were involved with Merom and would like to share your stories or memories, please send an e-mail to merom@merom.org.

*John B. Mier
Merom Conference Center
P.O. Box 127
Merom, IN 47861*

Origins of the Grand Prix

Thanks to John Oxian for his letter in the September/October for refresh-

ing my memory of the popularity, excitement, and fun of the Cary Hall Tricycle Races. However, as director of the first two Purdue Grand Prix races in 1958 and 1959 and as a fellow Cary resident and Independent, I must disagree with his view that the Purdue Grand Prix (PGP) was a fraternity “improvement to the tricycle race.” It was Purdue University’s response to IU’s “Little 500” bicycle race.

True, the idea of a kart race came from a fraternity; Delta Upsilon’s (DU) DeAlton Lewis. In De’s own words from a recent e-mail, “I thought, ‘these people have a neat thing going, but since we at Purdue are attending a great engineering school, could we do something along this line, except with cars, to stress engineering.’” DU Peter Helferich developed a plan and at Dean Daniel Greer’s suggestion brought it to the Purdue Auto Club (PAC) of which he was a member and I was vice president. PAC sponsored the early races. Participation was and still is open to ALL Purdue students, regardless of affiliation. Now, at the age of 52, “The Greatest Spectacle in College Racing” is the oldest continually run kart race in the world!

Thanks for the memory, John.

*Roger Yule ME’59
Fullerton, CA*

Class ring found in Kokomo

A Purdue class ring was recovered from a Kokomo area burglary with the initials DBA Pharmacy 1962. Please contact Detective Sergeant Matt Rosenbarger with the Purdue Police department at (765) 494-8221 if you have any information about the owner of this ring.

We want to hear from you!

If you have a submission for the Photo Gallery, Generations of Boilermakers, or Another View, please send it to alumnus@purdue.edu. Submissions for Another View can include a photograph, essay, or other work. It is a creative outlet for loyal alumni.

Letters to the Editor

*Purdue Alumnus
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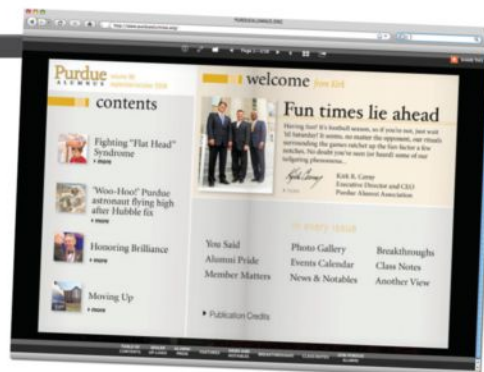
Purdue Online ALUMNUS



Global Hawk Visits Purdue. Rolls-Royce brought a full-scale model of the Northrop Grumman Global Hawk unmanned military aircraft to Purdue University Airport for public view.



video
news and notables



Krannert's Bootcamp Teaches Business Basics to Vets. Veterans from across the Midwest and Eastern United States visited Purdue's Krannert School of Management for an intensive seven-day course aimed at helping them start their own businesses.



video
news and notables



Food Scraps Help Power Treatment Plant. Purdue is helping to power the local water treatment plant with methane generated by food waste from the University's food courts and dining halls.



video
breakthroughs

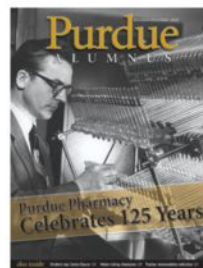


Chao Center Donates Much Needed Medications. The Chao Center for Industrial Pharmacy & Contract Manufacturing is donating about 1,800 bottles of a medication to help fight multidrug-resistant tuberculosis (MDR-TB) to Cambodia and Ethiopia.



Soybean Oil Blend Alternative for Home Heating. A blend of degummed soybean oil and No. 2 fuel oil can be used as an alternative heating fuel and reduce sulfur emissions, according to Klein Ileleji, an assistant professor of agricultural and biological engineering.

On the Cover



Egil Ramstad came to Purdue in 1948 as a visiting professor from the University of Oslo in Norway. He joined the staff full-time after a year and was in charge of pharmacognosy — the study of medicines derived from natural sources. In this photo, he is working on a Gunter Current Extractor and Mass Spectrometer. The photo is courtesy of Purdue University Libraries, Archives, and Special Collections.

We can't fit all the great photos and information into the print version of *Purdue Alumnus*! Whenever you see this icon at the end of an article, visit our online magazine located at www.purduealumnus.org.



photo gallery
breakthroughs

media

department

From the table of contents, click on the feature article or department you're interested in to experience the media listed.

2009 Purdue Alumni Award Winners

Alumni honored at the 2009 Alumni Leaders Conference Celebration Dinner



Ann Vandermolén with Kirk Cerny



Melissa Lewis with Kirk Cerny

Outstanding Young Alumni Awards

The Purdue Alumni Association is proud to honor Missy Lewis and Ann Vandermolén as the Outstanding Young Alumni Award winners.

Lewis (LA'99, MS LA'03) serves on the College of Liberal Arts Alumni Board and is a regional advisor for Delta Zeta sorority. Lewis pioneered the Purdue Alumni Club of Indianapolis Web site and continually produces a newsletter for the club.

Vandermolén (A'03) is currently on the Purdue Ag Alumni Association board and is the co-chair of the young alumni

committee working to grow young alumni participation at Ag alumni events. She also serves as treasurer for the Purdue Alumni Club of Central Iowa.

The Outstanding Young Alumni Award was established in 1999 and honors people age 32 or younger that have given outstanding service to the University, the Purdue Alumni Association, or a local alumni club.

Boilermaker Pride Awards

The Purdue Alumni Association recognized Barb Siegfried and Ed Ogden as the 2009 Boilermaker Pride Award winners.

Siegfried (LA'59, MS EDU'63) was a founding member of the Purdue Alumni Club of Clinton County in 1975 and has served as an officer every year since. She has served 28 years as secretary and has completed stints as vice president and president. She's been a member of the Alumni Association since 1959 and a life member since 1984. Siegfried has served the Alumni Association as Region 2 director from 1998–2001 and has served on various award selection committees. She has also visited over 35 local clubs across the country. For over 43 years Barb has actively recruited students to attend Purdue as both a teacher and Purdue enthusiast.

Ogden (ChE'52) has served the Purdue Alumni Club of Milwaukee for more than 30 years. In the early 1980s he stepped into the role of club secretary, a position he held for more than 20 years. During that time, Ogden also had stints as the club's newsletter editor and scholarship committee chair, and took over coordination of their monthly lunch gatherings in the late 1990s. In 2004, Ed "retired" from his secretary duties but has remained active in the club.



Ed Ogden, Kirk Cerny, and Barb Siegfried

The Boilermaker Pride Award was established in 2005. The award was introduced to recognize club leaders who have contributed time and service to the alumni club program and the Purdue Alumni Association over a significant period of time.

Purdue Alumni Recruiting for Tomorrow (PART) Award



Louisia Taylor with Kirk Cerny

Louisia Taylor received the PART Award for her efforts in promoting Purdue to the next generation of Boilermakers.

Taylor assisted the Office of Admissions with their representation at the Indiana Association for School Principals events around the state of Indiana. These academic competitions are held for elementary, junior high, and high school students.

Taylor is involved with the Purdue Alumni Club of Indianapolis and helped in recruiting prospective students to attend these events. She devotes a substantial amount of time to promoting, attending, and helping to improve these types of opportunities for Indiana students of all ages.

PART volunteers have represented Purdue at more than 160 college fairs around the country. They also play an integral role in inviting new students to local Purdue Alumni Association events.

Purdue Alumni recognizes Special Boilermaker Award recipients



Ted Priebe, Marshall Martin, and Kirk Cerny

The Purdue Alumni Association named Marshall Martin and Ron Fruitt recipients of the 2009 Special Boilermaker Award.

They were recognized at the September 19 football game against Northern Illinois.

Martin (MS A'72, PhD A'76) is the associate director of Agricultural Research Programs and a professor of Agricultural Economics at Purdue. For more than 30 years, Martin has made extraordinary contributions to student life at Purdue as a teacher, researcher, administrator, and as a very active and longtime supporter of undergraduate music programs. He has advised hundreds of undergraduates and over 40 graduate students, earning the department's outstanding teacher award seven times and the outstanding thesis or dissertation



Nancy Fruitt-Halsema, Phyllis Fruitt, and Kirk Cerny

award five times.

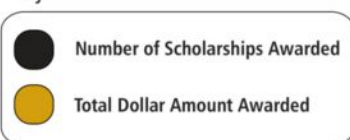
Ron Fruitt (A'59, MS LA'67) is being honored posthumously for his 34-year career at Purdue that included positions that ranged from hall manager to eventually vice president of housing and food services. He retired in 1996 with the honorary title of vice president emeritus. He served as a special assistant to the director of the Purdue Alumni Association for five years after his retirement. Fruitt dedicated his life to helping others and always found time to help those in need.

Established in 1981, the Special Boilermaker Award honors those who have contributed significantly to improving the quality of life or bettering the educational experience for Purdue students.

Clubs awarded over \$200,000 in scholarships

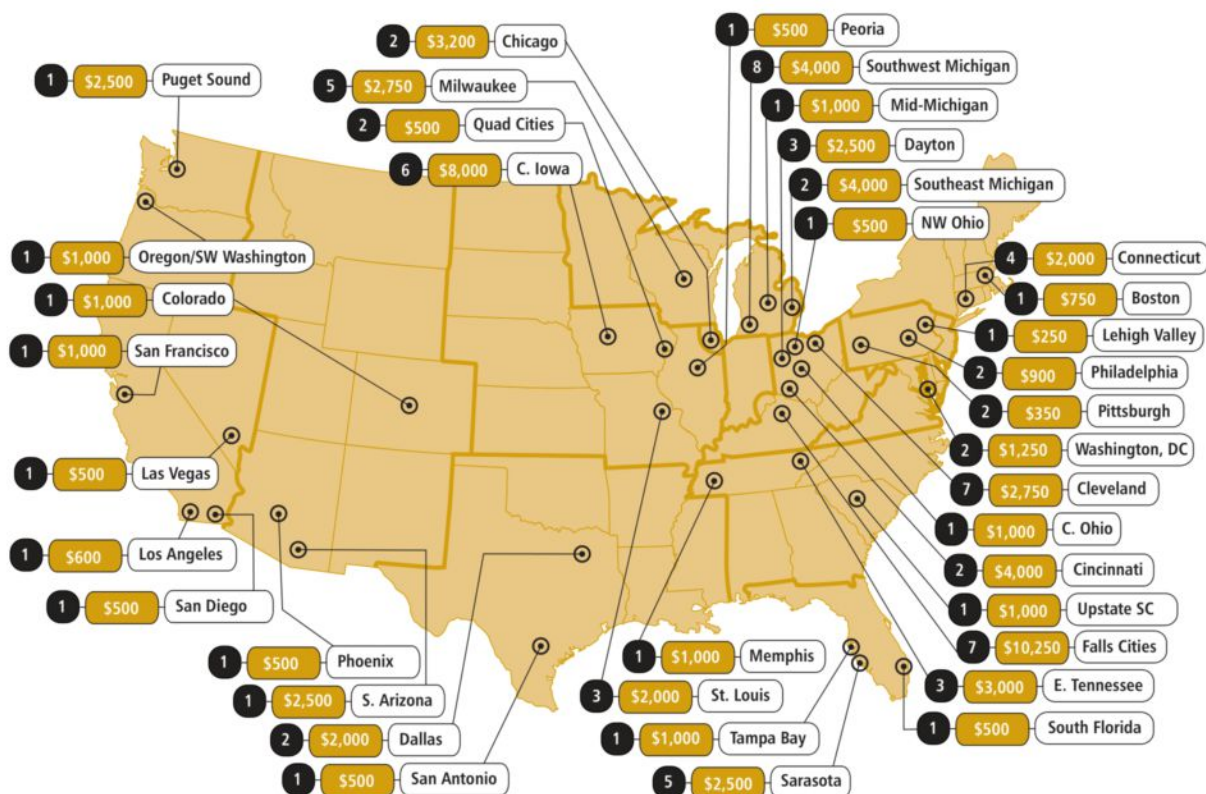
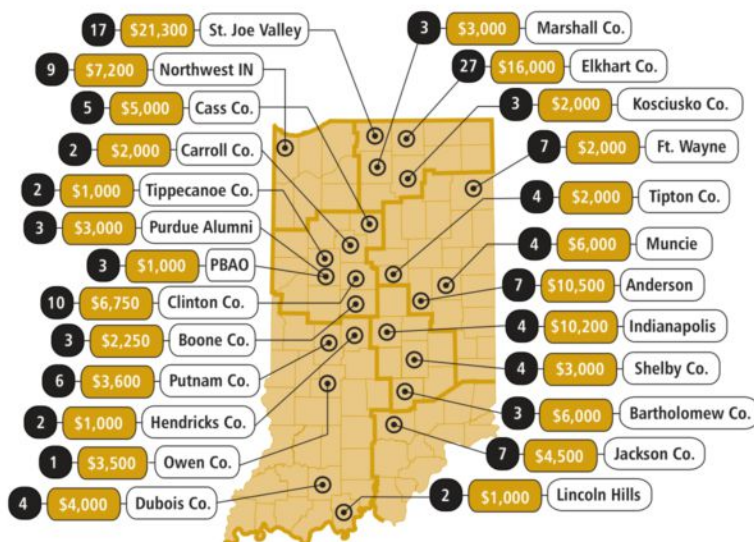
Even during tough economic times, Purdue Alumni continues to value supporting outstanding students through scholarship giving. Purdue Alumni Clubs across the country awarded over \$200,000 in scholarships for the 2009–10 academic year to 228 students.

Key



Total Club Scholarships

2009	228	\$206,100
2008	220	\$207,848
2007	203	\$172,000
2006	201	\$166,397
2005	195	\$154,350





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Honor Roll of Donors

The Board of Directors of the Purdue Alumni Association expresses its sincerest appreciation to this group of loyal Purdue alumni and friends who have made a sustaining contribution of \$500 or more to the organization during 2008–2009. Like the founding fathers of the association, these individuals are ensuring Purdue prospers.

Mr. Thomas E. Arenberg (S'74, MBA'75) & Mrs. Diane L. Arenberg (LA'76), Mequon, WI

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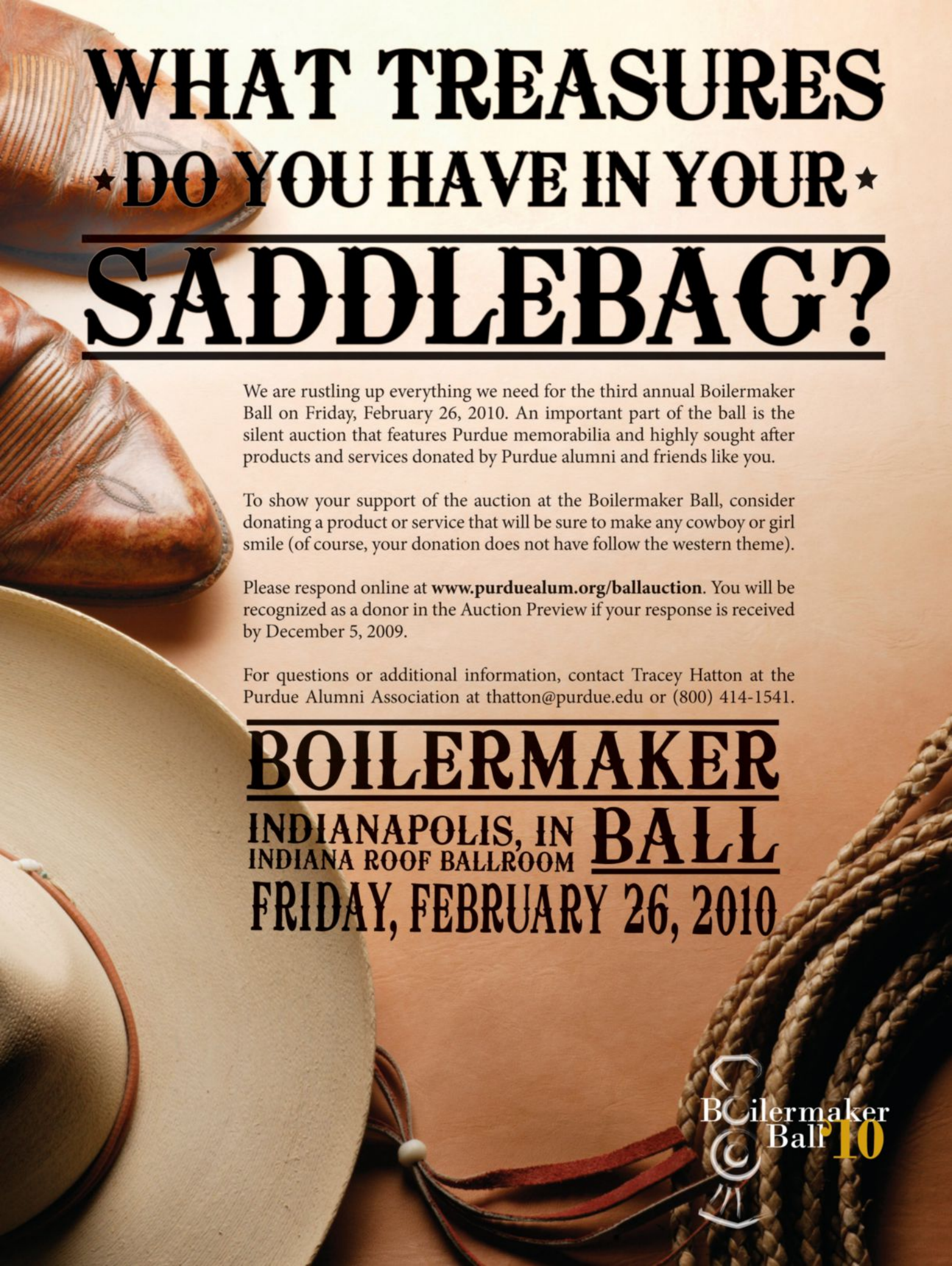
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Mr. Jeffrey B. Weitekamp (M'98) & Mrs. Bente M. Weitekamp, Lafayette, IN

James L. Yeager, RPh, PhD (P'74, PhD P'78) & Mrs. Jean L. Yeager (LA'74, MS CFS'78), Lake Forest, IL



WHAT TREASURES ★ DO YOU HAVE IN YOUR ★ SADDLEBAG?

We are rustling up everything we need for the third annual Boilermaker Ball on Friday, February 26, 2010. An important part of the ball is the silent auction that features Purdue memorabilia and highly sought after products and services donated by Purdue alumni and friends like you.

To show your support of the auction at the Boilermaker Ball, consider donating a product or service that will be sure to make any cowboy or girl smile (of course, your donation does not have follow the western theme).

Please respond online at www.purduealum.org/ballauction. You will be recognized as a donor in the Auction Preview if your response is received by December 5, 2009.

For questions or additional information, contact Tracey Hatton at the Purdue Alumni Association at thatton@purdue.edu or (800) 414-1541.

BOILERMAKER

INDIANAPOLIS, IN BALL

INDIANA ROOF BALLROOM

FRIDAY, FEBRUARY 26, 2010



Big Ten Network serves fans abroad

Big Ten fans from around the world will be able to watch football and men's basketball teams this fall with "Big Ten Ticket," the Big Ten Network's new international web streaming package. Viewers living outside of the United States and Canada can view games live and on-demand at www.BigTenTicket.com.

Fans can select from three different service options: the "Single-Game Pass," the "School Pass" that covers every Big Ten Network football and men's basketball telecast for one school, and the "Conference Pass" that covers every Big Ten Network football and men's basketball telecast for every Big Ten school during the 2009–10 season. Make your selections today at www.BigTenTicket.com.



Purdue Alumni directors nominate Hardin to serve, regional director nominations sought

The Purdue Alumni board of directors unanimously selected John Hardin Jr. (A'67) of Danville, Indiana, as the Purdue alumni trustee nominee. His three-year term will begin July 1, 2010.

Hardin has served as a trustee since 1992 and serves as the alumni representative.

Trustee nominees must be graduates of Purdue University and be dues-paying members of the Purdue Alumni Association. For more information about the Purdue Alumni trustee selection process, contact Mary Dennis at mfdennis@purdue.edu or (765) 494-5179.

The Purdue Alumni Board of Directors consists of one director from 17 regions throughout the United States. Nominees must be dues-paying members of the association and can be nominated by their local alumni club or self-nominated. The following regions will be open in 2010: 2, 4, 6, 8, 10, 12, 14, and 16. To find out if you live in one of these areas, contact Ben Paolillo, director of alumni clubs, at bjpaolillo@purdue.edu or (765) 496-6241.

Record number attend PASE Networking Dinner

A record setting 275 students and 100 alumni attended the Purdue Alumni Student Experience (PASE) annual Networking Dinner on September 18.

The Networking Dinner was held in the Shively Suites of the Ross-Ade Pavilion. During a social hour and dinner, students had the opportunity to speak with alums about how their degrees and experiences that got them to where they are today. To view photos from the event, visit www.purduealum.org/pase.

PASE is the largest student group on campus boasting more than 2,000 members. PASE is the student membership of the Purdue Alumni Association.



PASE Board of Directors (BoD) members organized the Networking Dinner and manned the registration tables. The PASE BoD is a group of student leaders that serve as the executive committee for PASE.



The Networking Dinner provides students the opportunity to share a meal with alumni in their chosen field of study and talk about how to get started on a career path in that field.



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In August a group of Purdue alumni traveled to the Matterhorn — a mountain lying on the border between Switzerland and Italy and is one of the highest peaks in the Alps. Pictured here back row — from left to right are Bob White (M'66), Robert Racer (A'60), and Ed Buening (IM'68). In the front row from left to right are Cyndy Buening (A'69), Swiss Bernhardiner dog, and Marcia Racer (FR).

The Purdue University Twirling team competed in the National Baton Twirling Association's America's Youth on Parade at Notre Dame. One award they were honored with was the Wow Entertainment Award for Collegiate Teams. This is awarded to the college team who brings an audience to their feet the best.



The Iowa State Fair celebrated the 40th anniversary of Neil Armstrong landing on the moon. This sculpture of Neil Armstrong was on display in the Ag Building at the Iowa State Fair and was made entirely out of butter.

From left to right, Paul Bonham, Jim Coleman, Don Hatke, Orlan Forker, Ron Daughtery, Richard Bonham returned to campus for their annual reunion this fall. This group of 1950 agriculture grads has been meeting annually for the last 34 years. Originally a group of ten, four of their friends have passed away — George Swinford, Allan Gustavel, Robert Beatty, and Roger Jessup.





On August 5 over 30 alumni and friends gathered at the annual picnic put on by the Boilermakers of Air Products and Chemicals in Pennsylvania. The hosts of the event were Purdue alums Jeff Dombek (ChE'08) and Laura Mearhoff (ChE'08).

Visit the Purdue Alumni Association's Web site at www.purduealum.org to view the 2009 Homecoming and Alumni Leaders Conference photo galleries.

This group of loyal Boilermakers displayed their Purdue pride at the Purdue vs. Oregon football game. First row, left to right Janet (Smith) Sweeney (LA'66) and Mike Sweeney (M'66). Second row, left to right: Mike Veon (EE'66), Andy Wihtol (IM'66), Mike Stillabower (EE'66), and Chris Johnson (E'66).



In recognition of his recent donation of \$10,000 to the Purdue Club of Cincinnati scholarship fund, Carl Bimel (-S'42) was presented with a picture of Ross-Ade stadium taken during a Purdue victory over Notre Dame. Standing with him from left to right are club officers Marsha Wise (M'89), Cheri West (NRS'87), and Terry Jaspers (LA'74). In total, Bimel has donated more than \$56,000 to the club's scholarship fund.

events calendar

Purdue Alumni Clubs

www.purduealum.org/clubs

Purdue Club of Fort Wayne

www.purduealum.org/fortwayne

Fort Wayne Alumni Club Bucket Dinner

November 24: Join alumni and friends at 6:00 p.m. at Goeglein's Catering and hear from special guests from the Purdue football staff and executive director and CEO of the Purdue Alumni Association, Kirk Cerny. Register at www.purduealum.org/fortwayne. Contact Sean Marquardt at marquardts@1stsource.com.

Purdue Alumni Association

www.purduealum.org

Friday Night Bashes

www.purduealum.org/fridaynightbashes

Rally with fellow Boilermaker fans on location the Friday night before each Big Ten away game. Local venues host the Purdue faithful as we Boiler Up for the game on Saturday! Check the Web site for locations and to sign up!

November 11: Purdue vs. Michigan

Boilermaker Ball

www.purduealum.org/boilermakerball

February 26, 2010: Mark your calendars for the third annual Boilermaker Ball. The event will once again be held at the Indiana Roof Ballroom in Indianapolis.

College/School Associations

College of Agriculture

Purdue Ag Alumni Fish Fry

Saturday, February 6, 2010

11:30 a.m.

Toyota Blue Ribbon Pavilion,
Indiana State Fairgrounds

The program will feature Purdue Agriculture's two World Food Prize laureates: Gebisa Ejeta (2009) and Phil Nelson (2007). Tickets must be purchased in advance. Call the Purdue Ag Alumni Office, 765-494-8593, or get details online at www.ag.purdue.edu/agalumni.

Regional Campuses

IPFW

Economic Outlook Luncheon

November 18: Join us for a luncheon and discuss the future of the economy. The luncheon will be held in Walb ballroom from 11:30 a.m.–1:30 p.m. Contact Kim Wagner at wagnerk@ipfw.edu if you have questions.

Homecoming

December 5: A Homecoming party is tentatively set from 4:00 p.m.–6:30 p.m. Enjoy men's and women's basketball with women's basketball vs. Oakland at 4:30 p.m. and men's basketball vs. Oakland at 7:00 p.m. Alumni awards will be given during half-time of the men's basketball game. For questions e-mail Kim Wagner at wagnerk@ipfw.edu.

Alumni and Friends' Trip to Palm Island Resort

January 28–February 2: Save the Date!! Make plans to join your IPFW alumni and friends on an island off the Gulf Coast of Florida to escape the Indiana winter! To learn more about this opportunity, contact the IPFW Alumni Relations Office at (260) 481-6807 or alumni@ipfw.edu. Find out more about the destination at www.palmisland.com.

Special Events

www.purdue.edu/events

Mollenkopf Weekend

February 12-14: The 2010

Purdue weekend in Naples, Florida, celebrates the generosity of the University's premier giving society, the President's Council. In partnership with the John Purdue Club, our annual weekend in Naples gives the University the opportunity to thank members and celebrate the success their generosity makes possible.

February 12:

Mollenkopf Golf Outing

February 13:

President's Council Back to Class

February 13:

President's Council Annual Dinner

For more info about the Mollenkopf Golf Classic, please contact the John Purdue Club at (765) 494-3248.

For more information, please contact the Special Events Office at (800) 213-3044, (765) 494-0900, or events@purdue.edu.

Tours

www.purduealum.org/tours

For more information on Purdue Alumni tours or to request a brochure, call (800) 414-1541 or e-mail alumnitours@purdue.edu.



April

Cruising the Canary Islands

The natural beauty and exotic charm of the Canary Islands is displayed as you cruise aboard the *MS Le Diamant*. Marvel at the Spanish-Colonial architecture of the islands and the gorgeous rugged shores of Portugal.



June

Italian Lakes and Dalmatian Coast

Set sail from Venice aboard the five-masted sailing ship Wind Surf. Enjoy casual elegance as you venture to ports including Koper, Slovenia; and Split,

Rivinj, and Dubrovnic, Croatia. Tour begins with a cruise of Lake Maggiore, a visit to the Borromean Islands, and a full day in fabulous Milan.



August

Cruise the Aegean Sea

Embark on the elegant Wind Spirit to cruise the storied Aegean Sea. Venture to idyllic ports on the Greek Islands and along the Turkish coastline.

Upon arrival in Istanbul, enjoy

two nights in this stunning city that straddles two continents — Europe and Asia.



September

Paris and Normandy

Begin your journey with guided tours in Paris of Notre Dame Cathedral, the Louvre, and the Eiffel Tower. Next, cruise the Seine on board the newest addition to the Avalon fleet,

the Creativity. Enjoy a visit to Giverny, the city that inspired Monet, and Rouen with its beautiful Romanesque Cathedral. Also included is a memorable excursion to the solemn and peaceful beach at Normandy and the American Cemetery.



Oberammergau's Passion Play featuring Bavaria

Come explore the scenic wonders and charming traditions of Bavaria and attend the spectacular decennial Oberammergau Passion Play 2010. This 12-day adventure takes you from medieval

Rothenburg ob der Tauber along the fabled Romantic road to lovely Lake Constance. Conclude your trip in lively Munich and experience the city's 176th Oktoberfest.



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For more information, contact Brandi Farrer at
(765) 494-5180 or brandi@purdue.edu.





MODERN DAY Santa Claus

Philip Koch (M'88) wants to turn Santa Claus, IN, into America's Christmas hometown.

By Amy Patterson Neubert

The 2,200-person Southern Indiana town is best known for its post office, where each December the town's residents volunteer their time to respond to children's letters to Santa Claus. Keeping with the Christmas theme that has become part of the small community's charm, it also is home to the family theme park Holiday World & Splashin' Safari, Lake Rudolph Campground & R.V. Resort, and Christmas Lake Village. It was Philip's father, Bill (ME'37), who created all these attractions.

But the younger Koch aspires to bring even more Christmas cheer to Santa Claus. After watching a Travel Channel special highlighting "The Most Christmasy Places in America," Koch began to dream big.

"There has always been some amount of Christmas enthusiasm, but I wanted to do something bigger and better," Koch says.

Now, thanks to Koch's vision, the town just opened its first Christmas store and will be kicking off a five-week Christmas festival in November appropriately named the Santa Claus Christmas Celebration.

"We are branding Santa Claus as America's Christmas hometown, so when we light the tree on November 20, we are lighting America's Hometown Christmas Tree," says Koch, chairman of the celebration's planning committee. "We'll be declaring the start of the Christmas season before the Macy's

Thanksgiving Day parade and the lighting of the Rockefeller Center tree.

"We have been Santa Claus, Indiana, for 153 years now, and we are going to take our rightful place as the experts on Christmas."

All in the family

Koch was very involved in the family business when he started studying aeronautical engineering at Purdue in the 1980s. His love for flight drove his interest in the program, but during his third year he took an accounting class and excelled.

"It just came to me," he says. "Accounting made sense and it felt good."

But it wasn't until he received a letter from the accounting professor offering to help him switch majors that summer did Koch really think he would go into business.

"Since I switched my major, it took me five-and-a-half-years to graduate, and I wasn't planning on going into the family business but here I am today," he says.

The family business started in the 1940s, when Koch's grandfather started Santa Claus Land, America's first theme park which opened nine years before Disneyland in Anaheim, California. Then Koch's father, Bill, expanded the park in the 1950s to include a toy shop, gift shop, restaurant, more rides, and year-round visits from Santa. Because business was booming, his





SANTA CLAUS
CHRISTMAS STORE



Philip Koch plans to expand Lake Rudolph Campground and R.V. Resort in 2010 by adding 50 new cabins and rental R.V.s. Lake Rudolph is located next door to Holiday World & Splashin' Safari.

father opened a campground, now known as Lake Rudolph Campground & R.V. Resort, just across the lake from the theme park. The next project was the creation of Christmas Lake Village, a 2,300-acre subdivision.

This gated subdivision, with street names like Ornament Lane and Chestnuts-by-the-Fire Drive, was considered one of the senior Koch's most risky adventures. At the time, there was no indication that families would purchase lots in the new subdivision in a town where the population had been declining for nearly 15 years.

"Santa Claus, Indiana, is out in the middle of nowhere," Koch says about his father's dream. "So why he would do something like that I still don't understand."

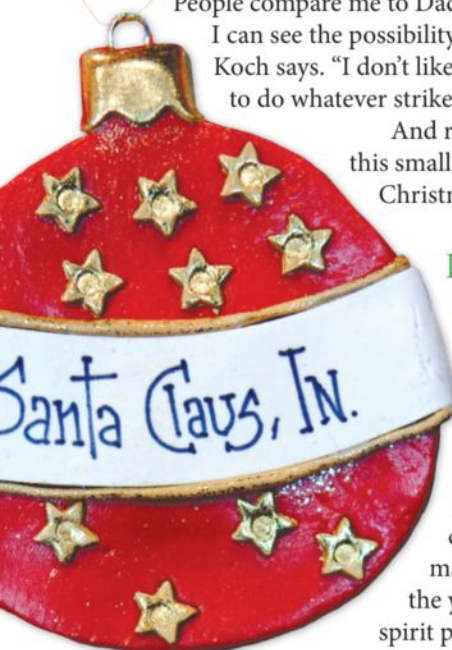
With that said, Koch's talent for creativity and success is the reason he is often compared to his father. The Christmas Lake Village subdivision is now full and occupied by three-quarter of the town's residents. Thousands visit during December when the community is open to automobile tours of its decorated houses and landscapes.

"People compare me to Dad because I have the vision — I can see the possibility of what is to come," Koch says. "I don't like to think inside the box. I like to do whatever strikes me."

And right now that is to make this small, Bavarian-inspired town the Christmas capitol of America.

Relocating the North Pole to Southern Indiana

Koch is so strongly driven that it would be no surprise to find him in June sampling fruitcake during the off-season so he can plan a fruitcake eating contest. Likewise you can find him listening to Christmas music on iTunes any time of the year to keep him in the spirit perpetually.



"Do I get tired of Christmas? No not yet, but I don't have to listen to the Christmas music in the store all the time," he jokes.

Koch started as the general manager of the Christmas Lake Golf Course in 1989 until it was sold in 2000. He also was involved in the oversight of the Lake Rudolph Campground & R.V. Resort and the Kringle Place Shopping Center before taking these over in 2002. Koch also is president of HoHoHoldings, which oversees the campground, shopping center, the real estate company Santa's Land, and the new Christmas store, which opened September 4.

"It's the store that everyone has always said should be built in Santa Claus," says Koch. "Right now, 7,000 square feet is a nice start for us, but I have a pretty aggressive growth strategy and we hope to grow to 50,000 square feet during the next several years."

"It's not difficult to figure out that a Christmas store in Santa Claus, Indiana, will be successful."

The store features decorations for commercial businesses, municipalities, and collectors, and Koch will soon be operating two online Christmas stores.

Koch is proud, too, of the accolades some of his other business ventures have generated.

His campground, which features 216 rentals — including cabins, R.V.s, and campsites — was named the 2008–2009 National R.V. Park of the Year from the National Association of R.V. Parks & Campgrounds. The campground accommodates many Holiday World guests during the summer, but also has become an attraction of its own during the fall. Despite the economic slowdown, the campground has experienced continued growth in 2008 and 2009. A 50-unit cabin expansion is planned for 2010.

When Koch became more involved with the campground in 2000, it was only operating at 15 percent capacity in the fall. So he created HalloWeekends. This seven-weekend Halloween-themed event increased the campground's business to 85 percent capacity in September and October. The event features a carnival, clowns, pumpkin decorating, Hallo-TEEN games, campsite decorating contest, Halloween dance, costume contests, hayrides, bonfires, and trick-or-treating.

This campground also will be transformed into a storybook with 20- and 30-foot Christmas light displays that tell the story of Rudolph the Red Nosed Reindeer for motorists cruising the 1.2-mile road as part of the Christmas Celebration. The drive through light display will be known as the Santa Claus — Land of Lights. It is the only light display that he knows of that tells a story rather than just an arbitrary collection of Christmas Light displays.



The Kringle Place parking lot will be the center of the Santa Claus Christmas Celebration where visitors can participate in contests for fruitcake-eating, present-wrapping, and tree-decorating, as well as Christmas carol karaoke.

"We're taking some of the drudgeries of Christmas and making them fun," Koch says. "We do have a lot of opportunity for national exposure with this celebration and expect to draw families from all over the country.

"This is all about the family. Dad wanted to build Santa Claus Land to make families happy. He built Christmas Lake Village so families would have a great place to live. My brother Will is always talking about families having fun in the Holiday World commercials."

Koch also will keep focusing on families as he tries to make this town "America's Christmas Hometown."

P Amy Patterson Neubert is a health and science writer with the Office of Marketing and Media.



Within The Santa Claus Christmas Store is a magical place called Santa's House. Between Thanksgiving and Christmas this year, children can visit with and have their photos taken with Santa. In 2010, Santa will be available May through December.

All in the family



Bill and Pat Koch

Philip Koch and his four siblings, Will Jr., Kristi, Daniel, and Natalie (MS M'03), were known as the little elves who helped their parents, Bill and Pat, put Santa Claus, Indiana, on the map. Santa Claus Land was started by Bill's father, and operated by Bill and his brothers.

The Koch children grew up living the family business. They spent many hours crammed in the family station wagon as their father drove around Southern Indiana surveying possible sites for Christmas Lake Village. Their first jobs were working at the theme park, and their family vacations were really "working vacations" as they visited other amusement parks.

In 1984, the theme park became even more of a family endeavor when Bill's brothers sold the park to him. Santa Claus Land became Holiday World and the park's themes were expanded to the Fourth of July and Halloween. Koch Development Corp. also was formed with Bill and Pat as co-chairs.

In 1993, Splashin' Safari was added to the park. More thrills were added in 1995, with the \$2-million wooden roller coaster The Raven and in 2000 with the \$3-million The Legend.

The family's business interests also included real estate, managing a campground, and golf course. In 1997, Koch Development Corp. also purchased the town's shopping center, Kringle Place, and refurbished it with a German/Bavarian village theme.

More changes and opportunity appeared in the 21st century, when the family business expanded into a second organization.

In 2002, Philip and Kristi sold their shares of Koch Development Corporation and began operating their own company, HoHoHoldings LLC. Philip is president, owner, and operator of the company which oversees Lake Rudolph Campground & R.V. Resort, Kringle Place Shopping Center, Santa's Land, and the Santa Claus Christmas store. Kristi, whose last name is George, is a doctor in Indianapolis.

The other siblings still manage Koch Development Corporation which operates Holiday World & Splashin' Safari and the newer Holiday Village subdivision. Will Jr. is president of the parent company, and Daniel, who is an attorney in Florida, and Natalie serve of the Koch Development board of directors. Their mother also is still very involved, but unfortunately, Bill passed away in 2001. The family legacy lives on and continues to thrive.



Stephen Byrn
Charles B. Jordan Professor of
Medicinal Chemistry



R for Success

By Melanie A. Hahn

Throughout its 125-year history of service, Purdue's School of Pharmacy and Pharmaceutical Sciences has helped advance research and education, provided innovative healthcare applications, formed global partnerships, graduated a myriad of leaders who are making their own contributions, and saved the state of Indiana approximately \$1.5 million during the last year in healthcare costs.

With a résumé like this, what's next on the agenda?

The health industry constantly wrestles with new problems. Threats like polio, tuberculosis, malaria, and typhoid have given way in the U.S. to be replaced by different problems such as cancer, HIV, and diabetes, demanding new and innovative treatment. For 125 years, Purdue's School of Pharmacy and Pharmaceutical Sciences has remained an academic resource for the healthcare industry, consistently producing both research applications and leaders to tackle society's constantly changing health needs.

With its strong reputation for both discovery and leadership, the school's graduate program consistently ranks within the top 10 in the nation, and is currently no. 9 in the *U.S. News & World Report* rankings. Its prescription for success is surprisingly simple: a dose of strong faculty leadership, mixed with a nurturing environment of collaboration and teamwork.

A legacy of leadership

Pharmacy students basically come to Purdue to do one of two things: become practicing pharmacists, or perform

research in either an academic or pharmaceutical industry setting (very rarely, a student might choose to do both). Undergraduate pharmacy students seeking to practice pharmacy will earn the Doctor of Pharmacy degree, or PharmD, completing a six-year professional degree. Students who want to go into research can either pursue a BS degree and serve as a research technician in industry, or obtain a PhD and direct research programs in either academia or industry.

Leadership has permeated Purdue's pharmacy program from the beginning. In 1883, according to *Purdue Pharmacy: The First Century* by Robert E. Eckles, Indianapolis pharmacist John Hurty asked Purdue President James Smart to create a program that would train students in the pharmacy profession. Smart agreed, on the condition that Hurty would serve as department head and professor for at least two years. In 1884, the School of Pharmacy officially opened its doors to seven students, becoming the third state-supported pharmacy school in the nation.

Over the years, the school continued to produce industry-shaping research and a revolutionary curriculum.

Purdue Pharmacy Kenya Program offers two-way learning



One of the most important aspects of student training for pharmacy practitioners involves clinical expertise, or training within hospital and other healthcare settings. During this training students advise and

educate patients on the wise use of their medications, as well as dispense prescriptions and perform other tasks.

One unique initiative at Purdue, the Purdue Pharmacy Kenya Program (in conjunction with the IU-Kenya Partnership), gives students the opportunity to complete an eight-week clinical rotation overseas in Kenya.

Ellen Schellhase, assistant professor of pharmacy practice, handles the coordination of the "U.S.-side" of the program, helping students prepare for the cultural and medical challenges they will encounter. Having been part of the program since its inception in 2004, Schellhase has seen the benefits to all involved.

"When we first went to Kenya and saw the conditions there, it really pulled at my heart," she says. "I knew that this partnership was something we had to do."

In a country where electricity and running water are often not available, providing good medical care is far more challenging. In addition, students must confront diseases uncommon in the United States such as tuberculosis, malaria, and typhoid, which still abound in Kenya. In addition, they often face advanced HIV patients and others who are very ill.

"We can make such a difference there," Schellhase says. "And the challenges really help students advance their skills. They learn to assess verbal and nonverbal communication, and they discover ways to work with very few resources to give an amazing amount of patient care."

The program is meant to be educational in all respects, she explains. "We're not just there performing a service; we've helped set up an infrastructure that will help the Kenyans care for themselves," she says. "And it's an exchange of education, we're learning, too. We're not only giving; we receive so much in return."

In 1943, John E. Christian published his team's research findings based on techniques that had never been applied in the field of pharmacy. The team used radioactive isotopes incorporated in drug substances to follow their distribution in the human body. This research in "bionucleonics" eventually evolved into Purdue's current nuclear pharmacy program, the first of its kind in the nation. Today, the program trains scientists and practitioners to manufacture, compound, and dispense radiopharmaceutical drug products.

Recognizing that pharmacists often managed either an entire community drugstore (or chain), or the prescription department itself, Purdue also created the first doctoral program in pharmacy administration, which still exists today, to teach the necessary business skills.

Seeing another enormous need, Purdue also created the nation's first clinical pharmacy program (which evolved into today's Department of Pharmacy Practice). "The clinical program began the practice of training pharmacists to be counselors for patients, in clinical settings such as hospitals," explains Patrick Belcastro (MS P'51, PhD P'53), professor emeritus of industrial and physical pharmacy. This clinical training is now a fundamental requirement in today's pharmacy practice curriculum.

It is even more surprising that Purdue devised such a program, given that it had no medical school. "A university with a medical school is able to train students in the medical school's hospital," explains Belcastro.

However, while Purdue's lack of a medical school creates some logistical challenges, the University's creative solution actually helps the state of Indiana. According to Craig Svensson, current dean of the College of Pharmacy, Nursing, and Health Sciences, today's students perform eleven four-week clinical rotations at hospitals and health providers across the state, and the students aren't the only ones who benefit.

"Last year, student's recommendations saved Indiana approximately \$1.5 million in healthcare costs," Svensson says. "In today's economy, that's a significant contribution."

Multifaceted faculty

Purdue's pharmacy program faculty have a habit of leading by example and fostering an empowering team atmosphere. No one better exemplifies these principles than Dean Emeritus Charles O. "Chip" Rutledge.

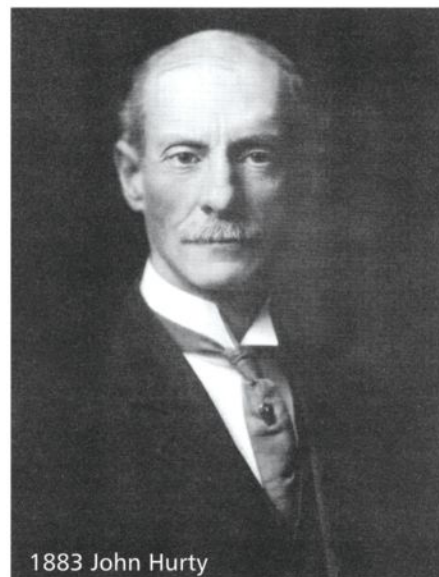
Rutledge served as dean for the Schools of Pharmacy, Nursing, and Health Sciences from 1987–2002, during which time he also held several board positions for the American Association of Colleges of Pharmacy and the American Society for Pharmacology and Experimental Therapeutics (among others). In 1997, he unexpectedly found himself elected president of both organizations at once.

But Rutledge wasn't worried. "I had a great team of school leaders," he says. "After a few years as dean, the team had things running so smoothly that I didn't need to be involved in the day-to-day operations. That freed me to be involved externally. I could never have been president of two major associations at the same time without that kind of teamwork back at Purdue."

(Not surprisingly, Rutledge went on to become the first executive director of Discovery Park, Purdue's interdisciplinary research hub, leading its creation from the ground up. He eventually became vice president/research for Purdue. He retired in 2008 and is both vice president emeritus for research, and dean emeritus for pharmacy, nursing, and health sciences.)



1884 First Pharmacy Class



1883 John Hurty



1934 First X-ray Imaging Techniques Course



1943 John Christian



1934 Patrick Belcastro



1970 Construction of the Robert E. Heine Hall

Stephen Byrn, the Charles B. Jordan Professor of Medicinal Chemistry, supports his field both at Purdue and through other work. Byrn has been at Purdue since 1972 and has served as department head for two different departments at the school, Medicinal Chemistry and Pharmacognosy, and later, Industrial and Physical Pharmacy. In addition to these duties, Byrn, a solid-state chemist, teamed up with his wife, Sally, to found their own company, Solid State Chemical Information, or SSCI (which was later acquired by Aptuit). In 2006, around 100 employees worked at SSCI's 44,000 square-foot lab, which was located in Purdue's Research Park.

According to Byrn, they created the company in response to help avoid problems of the type that surfaced during the generic drug scandal, when the wrong "polymorph" of a drug entered the market. A polymorph, Byrn explains, is a specific chemical composition of a substance. For instance, though diamonds and graphite have very different properties, both are polymorphs of carbon.

SSCI provides methods to track and analyze different polymorphs. This helps companies in a variety of ways, from marketing better drugs faster to avoiding marketing an ineffective polymorph.

"We can help identify which polymorphs are safe to be on the market and also which should be taken off the market based on concerns about their effects," says Byrn. "For instance, SSCI recently worked with a company to resolve questions about the effectiveness of an HIV drug that was being used to treat more than 70,000 patients. Our findings helped both the company and the patients."

Interdisciplinary difference

A strong proponent of multi-disciplinary collaboration, former Purdue faculty member and alumnus Gilbert S. Banker put his beliefs to work in obtaining his own Purdue doctorate, an interdisciplinary degree in industrial pharmacy and pharmaceutical chemistry (1957) with minors in physical chemistry, statistics, education, and industrial engineering.



1987 Charles O. Rutledge



1985 Robert and Elizabeth Heine



2006 Craig K. Svensson

“When you leave Purdue, you don’t really leave. You just change your relationship to the school.”

In 1966, when Banker was charged with founding the Department of Industrial and Physical Pharmacy, he began by hiring professors Garnet Peck, Dane Kildsig, and Stanley Hem. All had industrial experience but different backgrounds, creating a unique, multifaceted environment. “We were successful because we worked as a team, integrating three pharmacy disciplines, industrial pharmacy, physical pharmacy, and biopharmaceutics,” Banker says.

Collaboration across the university enhances researchers’ ability to produce creative solutions to industry problems. Today, interdisciplinary research is even more prevalent. For instance, School of Pharmacy and Pharmaceutical Sciences faculty comprise more than a fifth of the researchers working at the Purdue University Center for Cancer Research, according to Cancer Center data. These researchers are working on not just new drugs to treat cancer, but also state-of-the-art methods of drug delivery.

Empowering ingenuity

“Before I came here, I knew Purdue’s pharmacy program was a place to train leaders,” says Svensson, who arrived as dean in 2006. “That was its reputation and the data supports it. According to Purdue’s records, 20 percent of pharmacy deans in other schools across the nation are either Purdue alumni or former Purdue faculty.”

Banker, for instance, went on to become dean and professor of pharmaceutics for the College of Pharmacy at the University of Minnesota, and then dean and John L. Lach Distinguished Professor of Drug Delivery at the College of Pharmacy at the University of Iowa until his retirement as dean emeritus in 1999.

Banker says that Purdue’s broad-based, interdisciplinary curriculum served to produce natural leaders. “The great majority of graduates from industrial and

physical pharmacy entered corporations, and in part based on their ability to function in a variety of roles, rose to management or senior research positions,” he says.

Alumnus Alton Johnson (PhD P’87) is vice president/global manufacturing services for Pfizer Inc., where he has led teams to develop several drugs, including Aricept, Caduet, Diflucan, Geodon, Lipitor, Lyrica, Norvasc, Vfend, Viagra, Zithromax, Zoloft, and others. “Purdue provided general guidance but really encouraged grad students to go out and explore,” he says. “The program gave me a lot of independence, which was easy to translate into my work environment later. And I graduated with a greater breadth of technical knowledge that allowed me to understand how to move projects forward.”

Johnson found Purdue’s team principles vital to his success. “Very early in my career, I realized that to succeed, our staff had to reach out to other groups,” he says. “Purdue had already helped stimulate that in me. We can’t afford a silo mentality; when I started forming relationships with people in other areas who could help further our goals, they saw that I was eager to learn how things worked outside my own area of expertise, and that created far more possibilities.”

Alumni advice

According to Winnie Landis (P’91), “When you leave Purdue, you don’t really leave. You just change your relationship to the school.”

Her relationship to the school only strengthened after graduation, she says. “Purdue is a great resource. I can’t tell you how many times I’ve sought out the advice of the faculty at Purdue when I was working with national and state associations. It’s a different relationship; now I’m a peer, and we’re working together to do things for the betterment of pharmacy.”

Landis means what she says. A pharmacist and diabetes educator at CVS in Lafayette, she has served in numerous state

and national associations. She explains that such service is vital to the industry. While president of the American Pharmacists Association, she testified before the FDA Nonprescription Drug Advisory Committee in regards to safety and efficacy of over-the-counter cough/cold products. She noted that none of the FDA committee members were pharmacists. "I thought that was a significant oversight," she says. She asked that they consider appointing pharmacists to FDA advisory committees.

"Be careful what you ask for," she jokes. "About three or four months later, the FDA asked me to serve on the Non-Prescription Advisory Committee, along with another pharmacist."

Landis also has served on the Pharmacy Dean's Advisory Council since 1989 and works with students as both a campus speaker and a clinical training provider for the PharmD program.

The future of pharmacy

Changes in healthcare continue at an amazing rate, requiring the pharmacy program to change as well. According to Svensson, the school plans changes for pharmacy education and outreach as well as the graduate program.

"Pharmacists are arguably the most accessible of healthcare professionals," he says. "That makes them ideal for performing certain services. For instance, in Indiana, pharmacists are allowed to administer immunizations. And of course, they continue to provide drug counseling and education for patients. We want to increase these kinds of services. They provide a lot of benefits, like taking some of the burden off of primary care system and helping to not just treat disease, but prevent it."

And changes in the very nature of medicine require changes in research and teaching methods, particularly in the graduate program, he adds.

Svensson explains that the field of pharmaceuticals is focusing more on biotechnology, the manipulation and modification of organisms, often at the molecular level, to create many different types of new treatments. "The goal of many pharmaceutical companies is to have biotechnology drugs represent 30–40 percent of their portfolios," Svensson says. In addition, he says, treatments are becoming more personalized. "You not only can determine that a patient has a malignant tumor, but also, you can determine what kind of tumor it is," he says. "And then, you can examine the patient's other characteristics and create a very targeted therapy for that particular person."

Accordingly, Svensson says, the school is revising its doctoral program. The new curriculum will roll out over the next year and a half.

And while meeting new challenges is always a formidable task, in pharmacy, the reward is profound.

As Johnson says, "It may sound strange, but the challenges are my favorite part of the work. I'm not saying it isn't hard. But I see what we're doing, and I think, 'If we

Manufacturing Advantage



Lee-Hwa and Allen Chao

One of Purdue's advantages in pharmacy manufacturing is the School of Pharmacy and Pharmaceutical Sciences' relationship with The Chao Center for Industrial Pharmacy and Contract Manufacturing, which is funded through the Purdue Research Foundation. One of only two universities to be associated with an FDA-approved drug manufacturing facility, Purdue works with the center to educate students in good manufacturing practices (cGMP), provide pharmaceutical services to the pharmaceutical industry, and provide an environment for Purdue faculty to conduct research in a cGMP facility.

While FDA regulations prohibit students from actually participating in the production of drugs at the center, they have an excellent opportunity to learn through observation. Many drugs that are valuable to society have smaller distribution potential, making them less profitable for major pharmaceutical companies to produce. These companies can partner with The Chao Center to produce the smaller-lot drugs, creating a win-win result for all involved. For instance, in 2007, the center partnered with Eli Lilly and Co. to become the provider for a treatment against multidrug-resistant tuberculosis.

get this right, how much better the treatment will be.' We're not there yet, but I can already see the possibilities. It's very exciting to know we can make an even bigger difference."

P Melanie A. Hahn is the associate director/editorial manager with Purdue Marketing and Media/Creative Services. Photos provided by the School of Pharmacy and Pharmaceutical Sciences.

CHAMPION

By William Meiners

A champion water skier hopes a Purdue pharmacy degree will help keep his skiing career in high gear.





Purdue's School of Pharmacy and Pharmaceutical Sciences celebrated its 125th anniversary in September, and there's little secret about what makes it a top tier program in the nation. The tradition of excellence, along with the hard work of faculty, students, and staff distinguish the school as a particular Boilermaker strong suit in a campus crawling with students pursuing some of the best degrees in the land. A much better kept secret, however, may be the champion water skier among their ranks.

Cale Burdick, now a doctor of pharmacy candidate in his sixth year of the program, won two collegiate national championships in the slalom event, while placing second and third the other two years. He also won four straight collegiate slalom national championships in the spring all-star version of the competition, essentially going undefeated against the best of the national best. In 2008, he took another slalom first place, this time on the international stage at the World University Championships in China.

A club sport at Purdue without a coach, the Purdue Water Ski Team may seemingly fly below the radar for some, but the athletes soar high through slalom, jump, and trick events throughout a succession of fall tournaments that lead to the national championships. From early semester campus callouts to Labor Day weekend tryouts, the team routinely builds nationally contending teams that compete with scholarship-supported schools from far less land-locked locales. For Burdick, now faring well on the professional skiing circuit while simultaneously preparing for a professional life in the pharmacy field, the road to Purdue started with some of the opportunities skiing afforded him.

Water prodigy

Burdick's life on water skis began around the age of 5. His parents first had him skiing on a lake on the east side of Indianapolis before moving west to Danville. There, on a specially built water ski lake, Burdick turned good balancing skills, coupled with a good dose of courage, into the athletic skills that would make him very good, very young. "I won the nationals in my age division when I was 10 years old," Burdick says. "Around 16, I became good

enough to compete internationally."

He credits his athletic success simply to time spent in practice. "It's sacrificing whatever's necessary to get on the water," Burdick says.

The practice would lead to perfected techniques, shown most notably in his forte event, the slalom, but he's also competitive on both the jump and trick skis (he has flown and landed 191 feet off a ramp and scored 5,350 points in a trick competition, both personal bests). But he wasn't always so good on his feet, or skis, enduring a number of crashes along the way.

He recalls the first time he tried to somersault through the air on trick skis. "Tricking is my weak point of the three events," says Burdick, who honestly cannot recall the first time he went over the jump ramp or stood up on one ski. "I do remember the first time I tried to flip. You just do all the prep work and there's the pressure of knowing that you're not going to land it. Every time you fail, though, you get closer to success."

For the uninitiated, a brief explanation of what it means to slalom, could give an idea of the combination of athletic and technical skills that make someone like Burdick successful on a slalom course. According to Bill Roach, the past president of the Indiana Water Ski Association (IWSA) who was instrumental in helping the Purdue Ski Team obtain the current Purdue Lake they use, the slalom skier goes until he or she fails.

"The boat's top speed seed is 36 miles per hour," Roach says. "Once the skier successfully passes through the slalom course, negotiating his way around all six turn balls, the rope gets shortened. So Cale typically ends up with the shortest rope."

Roach explains that the standard recreational ski rope is 75 feet long. So a winning score of, say, three balls at 41 off means the rope has been shortened 41 feet off the original 75.

And with the boat maintaining its speed of 36 miles per hour, this makes for sharper turns and split-second decisions. "In Cale's case, and with a lot of your elite skiers, much of this comes down to sheer determination. When you cut behind the boat you're traveling at speeds of 60 miles per hour. You need to be in great shape," Roach says. "It's takes a lot of courage, technique, along with understanding your ski. The ski has a fin on the back and you can adjust that to your skiing ability."



Why Purdue?

Burdick was the five-time IWSA skier of the year going back to his high school days. That combination of athleticism, technology, and courage would become part of the learning process that would lead Burdick up the skiing ladder. The eventual successes allowed him to see South America and Australia, as well as compete in international competitions in the United States as a teenager. As a junior in high school, with his sights set on the Junior Worlds to be held in Chile in January (the South American summer), Burdick moved to Houston to live with a family so he could train all the way up to the competition.

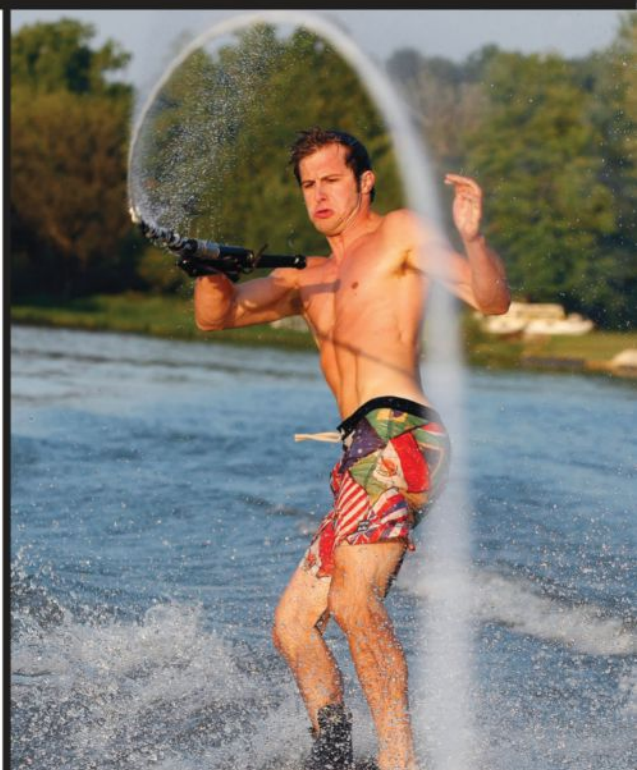
"The father in the family I stayed with was a pharmacist," says Burdick who was undoubtedly inspired by both of his own parents who work in the healthcare world (his mother a nurse, his father an eye doctor).

The timing proved to be good as he was in the decision-making mode for college. While he originally had thoughts about medical school, he learned the six-year pharmacy degree could one day afford him the skiing lifestyle without spending too much time in school and residency programs. But that alone wouldn't seal the deal for his commitment to Purdue.

Not many, but a handful of universities do offer full-ride scholarships for water skiing. Most just happen to be decidedly southern where you can imagine the opportunity for yearlong swimsuit wearing and accessible bodies of warm water, including Florida Southern College, Florida Gulf Coast University, and the University of Alabama. One in particular, the University of Louisiana at Monroe, even had a decent pharmacy program, Burdick reports. As a skier with an already established international reputation, the young man was recruited to make the jump south.

"I had nine semesters of a full ride in my left hand with Louisiana Monroe and tuition to be paid at Purdue in my right hand," Burdick says. "It was a tough decision to make. But I came here to Purdue because of the pharmacy program."

Currently in his sixth year at Purdue earning his doctor of pharmacy degree, Cale Burdick has won individual national championships as part of the Purdue Water Ski team — a club sport. To learn more about his skiing career, visit his Web site at www.caleburdick.com.



The well-organized Purdue ski club recruited him heavily even though they knew team chemistry and camaraderie wouldn't pay the tuition. He also had a few high school friends coming to West Lafayette, along with some of his longtime skiing buddies.

"Even though it's not a varsity sport here, Purdue does a fantastic job of creating the infrastructure to make for great club experiences," Burdick says.

Still, a challenging major could create waves when it came to finding the time to ski. "In my freshman year, I was working hard to get good grades in pre-pharmacy so that I could get into pharmacy school," Burdick says. "But skiing kept me focused. I would be like, 'Hey, I've got to get back to the dorm and finish my homework so I can get out to the lake.' You're a much more productive person when you have those extracurricular activities to motivate you."

He joined the Sigma Nu fraternity his sophomore year, learning how to deal more with time-management challenges. As a junior and senior, Burdick became one of the officers on the ski team — an unofficial coach and mentor who could help younger classmates adjust to both life on campus and their time on the water.

Professional hereafter

With the sun beginning to set earlier on a mid-September Monday evening, Burdick takes some guests out on the St. Joseph River to put his slalom and trick work on display. He's working a rotation at a hospital in Fort Wayne named for the same river. And he's once again balancing work with his need to get out behind a boat. He runs several slalom passes, shortening the rope each time, and creating a rooster tail spray that novices marvel at. This, too, is work. He has to keep working on his technique. He's got a professional event coming up in British Columbia the next weekend. He's even got a few sponsors, including O'Brien, On Side Films, and Perfect Pushup — a product he wholeheartedly pushes and uses.

"Once you're at my level, I can maintain my strength off the water, and just practice my technique on the water," he says. "I don't need as much time on the water as a beginner."

Still, you can see the pleasure he gets just making outrageous moves behind a ski boat look routine. He flips through the air on the trick ski, his "weakest event," landing it effortlessly. He later jokes about the water turning colder, while lamenting summer's fading sun behind him.

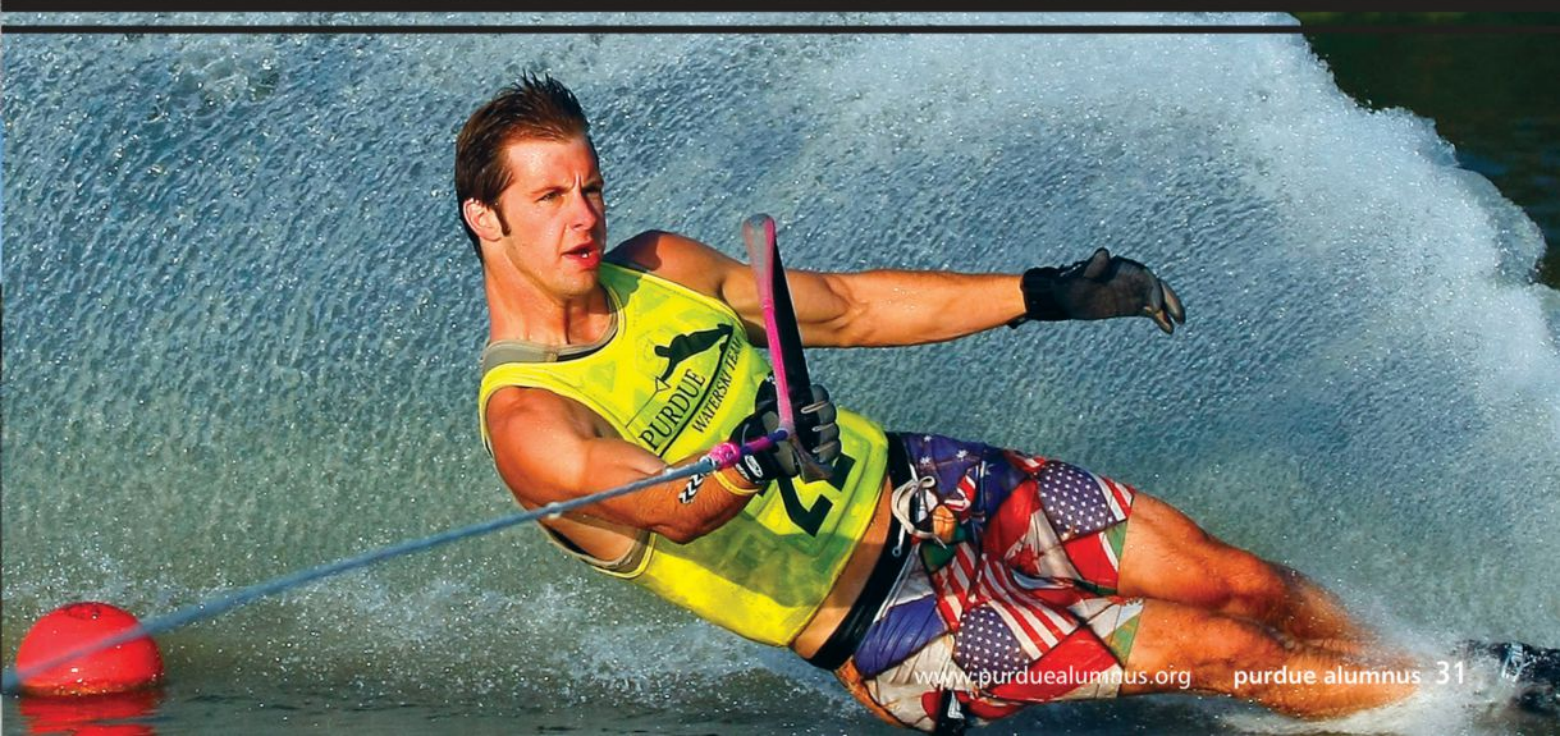
He's thinking about the future. "You can support yourself skiing professionally, but you can't sustain a family," he says, perhaps thinking about his fiancé and what he hopes might be a couple of kids a decade from now.

He is definitely after the lifestyle that he came to know early growing up on the water. But he also says it's a love that fuels other passions. "It's taught me to become passionate about pharmacy as well," Burdick says.

Still a self-proclaimed work-in-progress when it comes to the type of white lab coat he might be wearing; he is leaning toward retail or hospital pharmacy right now though he still has more rotations to pass through. But even balancing 40-hour work weeks with assignments and homework at night, he knows the water will never rush away. Just 23 now, he envisions skiing professionally at 33, while working his way up whichever pharmacy ranks he's drawn to. He says the Michael Jordan of skiing, Andy Mapple, was still beating everyone when he was 40, so he plans to keep his body in skiing shape through at least two decades.

And as a teacher, coach, and promoter of clinics, you get the feeling it's something he'll push through to younger generations. To give someone a chance to rip it through the water. To take get some kid up on one ski for the first time. To help some teenager nail his first flip after about a dozen face plants. To let it all flow forward while somehow paying it back.

P William Meiners is a writer with the Office of Marketing and Media. Photos by Andrew Hancock.







A Passion for Preserving **Purdue's History**

By Susan Moynihan

In 1995 a Purdue freshman named Chris Pate bought a men's basketball Big Ten Champions pennant and proudly hung it in his dorm room in Cary Quad. The pennant was the first item in what is believed to be the world's largest collection of Purdue sports memorabilia. Pate (EE '99), with the support of his wife Corry (DP'01), continues to add to his already impressive collection of well over 3,000 items.

Pieces in his collection tell the history of Purdue Athletics from the 1890s through 2009. One of the oldest item dates back to 1893, a football game program from Purdue's game against DePauw. Items from more recent times include a football jersey worn and autographed by Drew Brees, a Glenn Robinson basketball jersey, and a football autographed by the 1967 Rose Bowl Championship team. Pate loves to learn the history of the pieces in his collection as he strives to help preserve the stories of Purdue's rich athletic tradition.

"I enjoy collecting Purdue sports memorabilia because I am proud to be a Purdue graduate and fan. I find it very rewarding to own these artifacts, and I enjoy learning about Purdue's athletic history and successes as I accumulate them," says Pate. "I like to think of myself as a curator of Purdue sports history since many of the items I have are one of a kind."

Pate cites his involvement with Purdue Athletics as manager of the Women's Soccer Team as the reason he went from average pennant purchaser to acclaimed collector.

"Working as a student manager with women's soccer allowed me to become involved with Purdue sports even more than just being an avid fan," says Pate. "While I was a student, the Men's Basketball Team won the Big Ten Championship and made multiple runs deep into the NCAA Tournament, the Women's Basketball Team won the National Championship, and football enjoyed back-to-back Alamo Bowl Championship seasons. It was an exciting time to be a student and Purdue fan, and my association with the athletic department piqued my interest in sports memorabilia.

Photos by Chris Bucher.



photo gallery
features



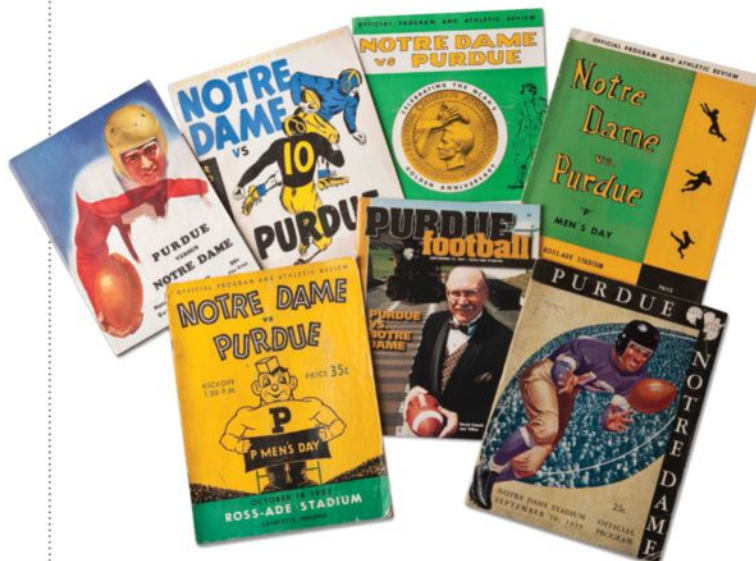
Purdue and Indiana began playing for the Old Oaken Bucket in 1925. He owns all but two Old Oaken Bucket game programs. He's currently on the lookout for programs from the 1991 and 1995 Old Oaken Bucket games.



The first major piece Pate's collection and probably the one responsible kick-starting his collecting fervor is a 1995 Purdue Basketball Back-to-Back Big Ten Championship Ring.



Pate relishes acquiring items surrounding landmark games or events. He owns a full ticket and program to the dedication game of Ross-Ade Stadium, a 26-7 victory over Indiana in 1924. He also possesses a ticket and program to the dedication game of Mackey Arena (then called Purdue Arena) in 1967.



Purdue has played Notre Dame in football each year since 1946. Pate now has a program from every one of those meetings.



Honoring the tradition of miniature charms

Before the days of championship rings, schools commonly awarded miniature football charms to their players to honor significant achievements. Pate has several such Purdue charms including the All-American charms given to Paul Moss, Purdue's first back-to-back All American in 1931 and 1932; charms that belonged to Guy "Red" Mackey and Jack Mollenkopf; a charm given to Paul Smiley, the quarterback of the 1926 team; and also a basketball charm presented to Clyde Lyle for winning the 1928 Big Ten Championship. Clyde Lyle also won the Big Ten Medal of Honor, the highest award a Big Ten Conference student-athlete can receive.



This 1952 Big Ten Championship belt buckle belonged to Guy “Red” Mackey — Purdue alumnus and long-time athletic director. Mackey’s football clip also is a part of his collection. This clip was given to football players when they beat Indiana and Notre Dame in the same season.



The 1893 football game program from the Purdue/DePauw game is among the oldest items in Pate’s collection.



2009 marks the 80th anniversary of the undefeated 1929 Purdue football team which featured Elmer “Red” Sleight and Ralph “Pest” Welch who led the team to an unblemished 8-0 record. Pate has programs and ticket stubs from almost every game from the 1929 season, and also owns a beautiful pennant celebrating the 1929 Big Ten Football Champions, a 1929 football schedule, and season ticket order form.



Rare Rose Bowl collectible

The 1967 football team was the first Purdue football team to play in the Rose Bowl game. Pate owns a signed football from the game. Some of the notable signatures on the ball include quarterback Bob Griese, Leroy Keyes, and Jack Mollenkopf. The autographed football was given to Roger Chaffee (AAE’57) while he was in NASA’s Apollo program training for a mission to the moon. He was presented the football in the locker room after the Rose Bowl game in which Purdue defeated USC 14–13 on January 2, 1967. On January 27, 1967, Chaffee was tragically killed during a training exercise.



Pate has worked hard to obtain many items regarding the 1903 Purdue football team. The 1903 team was involved in a train wreck while traveling to Indianapolis to play the Hoosiers on Halloween. The team’s train crashed on the way to the game and 17 members of the travel party, including both players and team staff, were tragically killed. Pate possesses the only known existing original team photograph of the 1903 Purdue team. Pate also has a very rare Purdue ticket to that game, one of only a handful known to have survived the wreck and the years since.

Hall Of Famer Rod Woodson returns to Purdue

Rod Woodson walked out of Ross-Ade Stadium more than two decades ago after one of the greatest performances in Purdue football history.

He returned in September as a member of the Pro Football Hall of Fame.

"Coming back to campus and seeing all the growth is tremendous," says Woodson, who was in town to work as analyst for the Big Ten Network's coverage of Purdue's games against Toledo and Northern Illinois. Woodson participated in the popular tradition of leading the Ross-Ade crowd in the singing of "Shout" at the end of the third quarter of the Toledo game.

"I'm a proud alum."

A Purdue standout

In his final collegiate game on November 22, 1986, Woodson played both ways in the Boilermakers' 17-15 Old Oaken Bucket victory over Indiana. He started at tailback and rushed for a team season-high 93 yards on 15 carries while catching three passes for 67 yards. At his usual cornerback position, he recorded 10 tackles, one pass breakup, and one forced fumble. He also returned three punts for 30 yards and two kickoffs for 46 yards. In all, the Fort Wayne, Indiana, native appeared in an astounding 137 plays, approximately 90 percent of the game.

"I've seen a lot of football, and I've never seen a young man play a game like that," head coach Leon Burtnett said afterwards of Woodson, who was named a consensus All-American. "If he's not the best player in this conference, I don't believe I've seen him. I wouldn't trade anybody in the country for Rod Woodson."

Record-breaking NFL career

In the 1987 NFL draft, the Pittsburgh Steelers picked Woodson with the 10th overall pick. Woodson, whose 11 career interceptions tied the Purdue record, played defensive back for 17 seasons with the Steelers (1987-96), San Francisco 49ers (1997), Baltimore Ravens (1998-2001), and Oakland Raiders (2002-03). He retired with 71 interceptions, the third-most in NFL history, and a league-record 1,483 interception return yards. Woodson was selected to 11 Pro Bowls, and, in 1994, he was one of only five active players to be selected to the NFL's 75th Anniversary Team.

The icing on the cake came with his selection to the Hall of Fame in Canton, Ohio. Woodson became just the 62nd individual elected in his first year of eligibility, and he was enshrined August 9, 2009. He is the fourth individual with Purdue ties to be inducted to the Hall of Fame, following quarterbacks Len Dawson (1987) and Bob Griese (1990) and running back and assistant coach Hank Stram (2003).

"It still seems surreal," says Woodson, who was inducted into the Purdue Intercollegiate Athletics Hall of Fame in 2003. "It's the ultimate individual accomplishment. To be told that out of more than 100 years of pro football, you are one of the best players ever, that's an amazing thing, and I'm honored and humbled."

During his induction speech, Woodson paid homage to his alma mater, saying, "My home away from home was Purdue University . . . All the multiple coaches there taught me so much. All the professors taught me so much. They got me ready for the National Football League. But more importantly, they got me ready for life."

P Tom Schott



Woodson worked as analyst for the Big Ten Network's coverage of Purdue's games against Toledo and Northern Illinois in September.



Rod Woodson is the fourth individual with Purdue ties to be inducted into the Pro Football Hall of Fame.

Construction begins for Purdue Crew Boathouse



Purdue and the City of West Lafayette's Redevelopment Commission have partnered to build a facility on the levee that will bring activity and access to the river for the community as well as give Purdue Crew a place to call home. Illustration courtesy of Purdue University Division of Recreational Sports.

After years of fundraising and planning, the Purdue Crew Boathouse is becoming a reality. The groundbreaking ceremony for the estimated \$1.7 million boathouse took place on September 20.

"This new facility will increase the visibility of the program and give citizens a better idea of what Purdue crew really is," says David Kucik, head coach of the Purdue Crew rowing team. "The crew is much more than a bunch of athletes that come out and row boats."

The approximately 22,000-square-foot, two-story boathouse will include a maintenance bay, three boat bays, a community boat bay, two workout areas, restrooms, and an area for Purdue Crew alumni. The facility will be located along the edge of the Wabash River near Levee Plaza at 500 Brown Street and should be complete sometime in spring 2010.

Purdue's total enrollment rising

Purdue's total enrollment, which includes the West Lafayette campus, Purdue Calumet, Indiana University-Purdue University Fort Wayne, Indiana University-Purdue University Indianapolis, Purdue North Central, and the statewide technology sites, is 74,319 compared to 71,984 a year ago. More than 54,000 — or nearly 73 percent — of the students are Indiana residents.

Statewide campus enrollment totals include:

West Lafayette Campus, 39,697
Purdue Calumet, 10,133
Indiana University-Purdue University Fort Wayne, 13,675
Indiana University-Purdue University Indianapolis, 4,964 enrolled in Purdue programs
Purdue North Central, 4,463
Statewide Technology, 1,387

Other West Lafayette enrollment highlights:

Total undergraduates: 31,145
Undergraduate residency: Indiana students, 20,079; U.S. non-Indiana students, 8,248; and International students, 2,818
Ethnicity overall: African-American students, 1,360; Hispanic students, 1,107; Native American students, 183; and Asian American students, 2,010
Total international students: 5,990
Graduate school: 7,639
Professional programs (Veterinary Medicine and Pharmacy): 913
Incoming transfer students: 1,253
Women: 16,731, and men, 22,966

Cosier stepping down as Krannert dean

Richard A. Cosier, who has served as dean of Purdue's Krannert School of Management for more than a decade, will step down from his position, effective June 30, 2010.

Cosier will remain at Purdue as the Leeds Professor of Management, a position he currently holds in addition to serving as dean.

"It's been an honor to lead our world-class faculty and be a part of the energy and dedication that surrounds Krannert," Cosier says. "My plan was to do this job for 10 years, and it will be 11 years next summer. It's time. I look forward to returning to the classroom and reconnecting with the students who drive this university."



MARK SIMONS

Purdue Golden Girl wins highest national honor

From the age of 3, it seems MerriBeth Cox was destined to one day become Purdue University's famed Golden Girl.

That's when she picked up her first baton, inspired by a cousin who was a twirler. By age 7, she was winning national awards. And she's still winning.

Cox, a sophomore who is beginning her second year as Purdue's Golden Girl, is the Miss Majorette of America, a title she won during the American Youth on Parade National Majorette Contest this July at the University of Notre Dame. She also took the "Wow" collegiate award for personality.

"I've wanted this since I was 3," says the 19-year-old native of Roselle, Illinois, about becoming Miss Majorette of America, the highest national award for twirlers. "Every twirler works toward this honor. I think it's a great opportunity to make a difference in the lives of other twirlers. Now I get to go to other competitions, wear my crown and sash, and talk to all the twirlers there and give them advice."

Cox's words of wisdom might well be about rigorous training and perseverance. This summer, Cox practiced eight hours a day, seven days a week. With school in session, she still squeezes in two hours of practice five days a week.

"It's tiring, but I truly love it," Cox says. "That's why I do it. Many people look at it as work, but I think of it as a lot of fun."

Cox has mastered the art of communicating her enjoyment with her audience — with the Wow collegiate award for personality serving as evidence. The prize is given each year to the twirler who most fires up the crowds.

"When I twirl at a competition, it doesn't look like I'm competing or I'm in it just for the trophy," Cox says. "The judges can see that I truly love doing it."

"Several people have told me that I'm very enjoyable to watch and that I'm entertaining, flashy, and fun."

Alisha Kuckartz, Cox's coach at Purdue, agreed.



MARK SIMONS

Purdue Golden Girl MerriBeth Cox was named Miss Majorette of America, a title she won during the American Youth on Parade National Majorette Contest.

"MerriBeth is a very dynamic and confident performer," says Kuckartz, who has been coaching Purdue twirlers for the past 10 years. "She's also very versatile in incorporating fast solo-type twirling along with gymnastics and dance. So it's very interesting for the audience to watch her."

As she concentrates on the present, Cox also is looking to the future. She's a math education major in Purdue's College of Science and wants to teach high school math after she graduates. She also wants to be a high school cheerleading and baton coach.

Cox chose Purdue for its reputation in science education and because in the baton community, the university is well known for respecting and taking care of its twirlers, she says.

"Purdue has been very supportive," Cox says. "The Purdue twirlers and some alumni were there at Notre Dame cheering me on when I needed to be cheered. I've also gotten great support from the band. Whenever I need anything, a band member is always there for me."

*"It's tiring,
but I truly
love it"*

P Soumitro Sen

Liberal arts class highlights careers, alumni

“Have breadth,” “live your passion, not someone else’s,” “do what you love,” these are just a few of the words of wisdom shared with students by liberal arts alumni who returned to speak in GS 300: LA Influentials — a lecture/discussion course taught by Irwin (Bud) Weiser, interim dean of the College of Liberal Arts.

The class is offered to liberal arts students each semester and features alumni who represent a diverse range of careers to showcase the variety of paths available to students upon graduation. Another unique element to class is the networking. Students have the opportunity to connect with alumni in a small group setting where they can ask specific questions.

“By having the opportunity to hear from and talk with a number of alumni who have used their Liberal Arts educations to launch their careers in business, education, government, journalism, media, and many other fields, students will be able to expand their understanding of the kinds of work they may want to consider doing,” says Weiser. “Our alumni have compelling stories to share about their career paths and how they continue to use the skills and knowledge from their liberal arts class in the workplace today.”

The following were the fall 2009 speakers:

- Andrew Maner (LA’91), CEO of National Interest Security Co. LLC.
- Brian Lamb (LA’63, HDR LA’86), CEO and chairman of C-SPAN
- Paul Krivonos (PhD LA’75), professor emeritus of communication studies at California State University, Northridge
- Judy Brandau (LA’70), vice president for international business operations for Latin America, West and Hawaii for Marriott Vacation Club International
- Anita Verheul (LA’85), senior vice president of William Gallagher Associates
- Earl Major (LA’88, MS M’90), director of human resource practices at Humana
- Lalita Amos (LA’85), president, Total Team Solutions LLC
- Col. Roy Byrd (LA’76), director of Marine Corps programs at ITT Defense, Electronic, and Services Group
- Purdue President France A. Córdova
- Purdue men’s head basketball coach Matt Painter (LA’94)
- Dale Pupillo (LA’76), special agent, U.S. Secret Service
- Steve Laughlin (LA’87, MS M’92), vice president in Global Business Services at International Business Machines (IBM)
- Cindy Fornelli (LA’85), executive director of Center for Audit Quality
- Kristina Harvey (LA’91), founding executive director of the Blossom Project Inc.

More information is available at www.cla.purdue.edu/alumni/gs300.

PURDUE Sports Highlights

- Purdue juniors Robbie Hummel and E’Twaun Moore were named two of 50 preseason candidates for the 2009–10 men’s basketball John R. Wooden Award All-American Team and Player of the Year trophy.
- Ralph Bolden was named Big Ten Co-Offensive Player of the Week for his performance in Purdue’s season-opening victory over Toledo. He shared the honor with Penn State quarterback Daryll Clark.
- Purdue head coach Sharon Versyp served as the honorary chair for the 2009 Greater Lafayette Hunger Hike.
- Incoming Purdue freshman Vinny Donnelly won the 2009 USA Swimming 5K Open Water Grand Prix at Angle Lake Park in SeaTac, Washington.
- Purdue sophomore diver David Boudia won a silver medal in the synchronized platform competition at the FINA World Championships in Rome, Italy.
- Purdue senior Sylvia Forbes was named to Soccer America’s Team of the Week in September.
- Pawel Gajdzik was named men’s head tennis coach at Purdue. The former Big 12 champion becomes the ninth head coach in the program’s 94-year history.
- Purdue junior Josh Hembrough won the 2009 Deaflympic 110-meter hurdle world championship in Taipei City, Taiwan. Hembrough set a world and Deaflympic record in victory, crossing the line in 14.16 seconds.
- Incoming freshman Kendrick Sanders won the U.S.A. Wrestling Junior Greco-Roman National Championship at 152 pounds. The national title was the third for the Florida native, who joined the Boilermakers this fall.
- Freshman Cashé Quiroga won the U.S.A. Wrestling Junior National Championship, capturing the 130-pound freestyle title.
- David Colturi and Casey Matthews earned silver medals at the AT&T National Diving Championships in Tallahassee, Florida.
- Recent Purdue graduate and 2009 NCAA individual champion Maria Hernandez was named part-time assistant golf coach for the Boilermaker women’s program.
- Johanna Josefsson has been hired as assistant women’s golf coach.
- Purdue soccer was awarded Big Ten co-Offensive Player of the Week (senior Sylvia Forbes), Defensive Player of the Week (senior co-captain Jenny Bradfish), and Freshman of the Week (Vanessa Ibewuik) after knocking off sixth-ranked Texas A&M.
- Former Purdue tennis player Brooke Beier has been named assistant coach for the Boilermakers.

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EXPERT ADVICE

Nice holiday gifts for kids don't require big spending

A Purdue University child development specialist says parents can give their children nice holiday gifts without spending a lot of money.

Judith Myers-Walls, an associate professor, extension specialist, and certified family life educator, suggests four ways to give inexpensive gifts: purchase less expensive toys, shop for used items, make your own toys, and give certificates to do something.

When shopping for inexpensive or used toys, Myers-Walls says you still have to watch out for safety and quality.

"It's not a bargain if it breaks right away," she says. "Look for the classic toys — blocks, sturdy dolls, or sturdy stuffed animals. The best toys don't do a lot by themselves. They stimulate a child's creativity and imagination."

Myers-Walls says to make sure the toy was originally safe and still is. Such items, which can often be found in stores that sell used toys or used children's clothing, should not have chipped paint or broken edges.

Homemade toys have several benefits, Myers-Walls says.

"The great thing about homemade toys is they are inexpensive and flexible. Sometimes you can make them with the child, and you can often remake them into another type of toy," she says.

An example of a homemade gift is a puzzle that can be made by taking a piece of paperboard, like the back of a cereal box, and cutting it into several pieces.

Another idea is to create a play prop box.

"You take a box and fill it with items that are all related to a kind of role playing," Myers-Walls says. "You could have a hair salon prop box with hair rollers, combs, brushes, and a hair dryer that doesn't work. Or you could make a store prop box with empty food containers, play money, bags, and baskets. Often they're things you could find around the house anyway, but gathering them in one place stimulates play."

Some Web sites that offer ideas on homemade toys and how to make them include: Robyn's Nest (www.robynsnest.com/homemade.htm), Artists Helping Children (www.artistshelpingchildren.org), and Suite101 (http://kids-outdoor-activities.suite101.com/article.cfm/natures_toys).

Certificates for activities can be anything from a ticket to do the child's chores around the house for a day, a date with mom or dad, tickets to play games, or a music night.

"Parents need to set limits," Myers-Walls says.

"Kids can't turn in a ticket at bedtime or use the ticket to say up all night, or they have to give a day's notice to make sure parents don't have anything else they need to do instead.

"You can still have a special time at the holidays during hard economic times. You can talk with kids about financial problems, but don't overwhelm them with the concern.

Holidays are all about hope, and it can be a time for the whole family to look toward a better future."

P Greg McClure



Purdue to lead national earthquake engineering network

Advancing research and education to reduce the devastation and loss of human life from earthquakes and tsunamis is the goal of a new center at Purdue University.

The National Science Foundation awarded \$105 million to a Purdue-led team to spearhead a center that will serve as headquarters for the operations of the George E. Brown Jr. Network for Earthquake Engineering Simulation, or NEES. Submitted through the Cyber Center in Purdue's Discovery Park, the grant spans five years and is the largest in the University's history.

Purdue will connect 14 NEES research equipment sites and the earthquake engineering community through groundbreaking cyberinfrastructure, education, and outreach efforts. Purdue's center began operations on October 1, and is housed in the University's Discovery Learning Research Center in Discovery Park.

"I was delighted to learn that Purdue has the opportunity to lead this consortium of first-rate research universities," says Purdue President France A. Córdova, who serves on the National Science Board, the governing board for the NSF, but was excused from deliberations on the award. "I've seen firsthand how devastating an earthquake can be not only to buildings, highways, and the infrastructure of a city, but also to families, the community, and people's sense of security.

In the past decade, 124 major earthquakes have occurred throughout the world, according to the U.S. Geological Survey. Major earthquakes are generally accepted to register a magnitude



MICHELE RUND AND STEVE TALLY

Rudolf Eigenmann, professor of electrical and computer engineering, stands in front of screens displaying the prototype cyberinfrastructure for NEEScomm. Eigenmann is a co-principal investigator on the project.

in excess of 7 on the Richter scale and inflict serious damage, including the collapse of buildings and bridges, over a large area.

The organization estimates that earthquakes were responsible for 463,959 deaths in the past decade.



video

news and notables



Purdue hub technology instrumental to global research, NEES Comm Center

An earthquake will occur in our world today. ... And activity logs indicate that at least 700 of these seismic events will be strong enough to cause damage, injury, or death each year. Our new NEEScomm Center is the global epicenter for advancing research and education that will reduce the devastation and loss of human life caused by earthquakes and tsunamis.

A key component in the creation of this new Center and its recent \$105

million in support from the National Science Foundation is software called HUBzero. Inspired by our own Purdue faculty, HUBzero is a powerful Web platform for scientists, providing them with their own form of Facebook.

Within this online environment — defined as cyberinfrastructure by the research community — scientists complete tasks such as exploring information on new areas of their discipline; downloading resources; searching for concepts; utilizing

Remodeled visitor's center features a modern look

New wall panels, sleek light fixtures, touch screen interactive maps and flat screen TVs are part of an upgrade that started last spring.

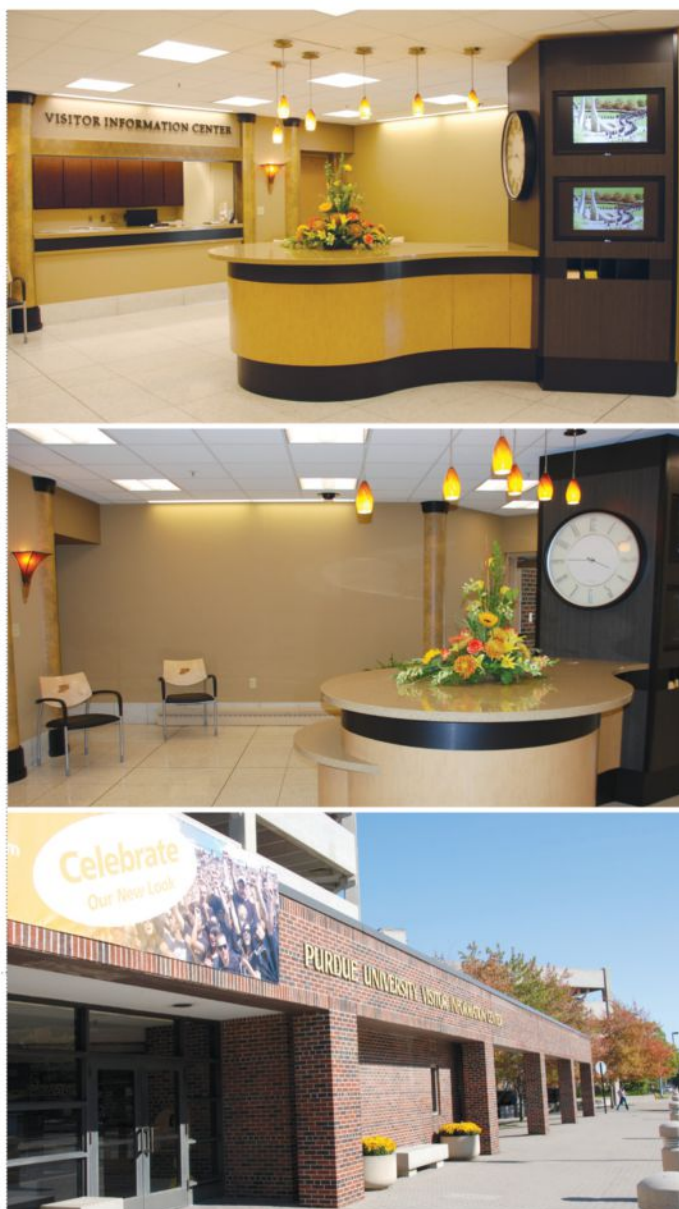
"This is the first stop many people make at Purdue, and it can set the stage for a lifelong relationship," says Teri Lucie Thompson, vice president for marketing and media. "First impressions are critical, and this new Visitor's Center hits the mark. For nearly a quarter of a century, the center has welcomed visitors to campus, and now with the newly remodeled interior, the center will provide an even warmer welcome to visitors."

The center houses information about the Greater Lafayette area and Purdue's campus and academic programs. With the help of 40 student volunteers, the center served more than 200,000 visitors during the 2008 calendar year. This included giving campus tours to more than 10,000 visitors.

Students in Windell "Otie" Kilmer's art and design course submitted design concepts for the renovation, providing the inspiration for the remodeling, Thompson says. Kilmer is a professor of visual and performing arts at Purdue.

"The center boasts contemporary style, high-tech touch screen and flat screen monitors to serve visitors' informational needs, and plenty of 'old gold and black,'" Thompson says. "With welcoming and friendly staff ready to assist, visitors will find the Information Center a great start to their campus experience."

▼
The Visitor Information Center is open Monday through Friday from 8:00 a.m. to 5:00 p.m. and on Saturday from 9:00 a.m. to 1:00 p.m. during the academic year. If you have questions, you can e-mail the Visitor Information Center at visitorcenter@purdue.edu. Photos by Kelly Hiller



dozens of simulation tools; and tapping into a global network of data resources. HUBzero also offers them interactive tools and opportunities to "attend" animated seminars with experts throughout the world, consult with colleagues about their research results, publish their own research, and network for research partnerships and potential grant opportunities.

Just as the Internet changed the way most of us go about our daily lives, the use of HUBzero promises to have a similar impact on the research community. Currently, we have 12 research communities using this platform to collaborate and another 12 are expected online within a year. The nanotechnology research community was the first user of the HUBzero technology about three years ago.

Activity reports on the nanoHub reveal some striking statistics — 90,000 worldwide users, 158 research tools, nearly 1,800 resources, and almost 400,000 research simulations.

Through highly sophisticated information technologies and the proliferation of the World Wide Web (1.6 billion users as of this past June), Purdue is bringing education and research resources, to the world while we work towards our *New Synergies* strategic plan goal — meeting global challenges. I encourage you to find out more about Purdue's impact by visiting these Web sites — www.nees.org and www.hubzero.org.

Go Boilers! Hail Purdue!

President France A. Córdova

Purdue dedicates Hockmeyer Hall of Structural Biology

Purdue structural biologists — a group that provides insights that lead to vaccines and other disease treatments — are getting a booster shot for their research with brand new facilities.

The Wayne T. and Mary T. Hockmeyer Hall of Structural Biology was dedicated on October 2. The building, which houses the Markey Center for Structural Biology, is located adjacent to Discovery Park at Harrison Street and Martin Jischke Drive.

Purdue structural biologists were the second in the world to map a virus, the first to map the common cold virus and continue to provide breakthroughs that could lead to better drug delivery and treatments of diseases such as cancer. This will be the first move for the group since it began its work in the basement of Lilly Hall 45 years ago.

The \$32.9 million, 65,690-square-foot building is named for Wayne T. Hockmeyer and his wife, Mary, who gave \$5.3 million toward its construction.

“Structural biology is the cornerstone of the new era of biological sciences,” said Wayne Hockmeyer, a Purdue alumnus and founder of biotechnology company MedImmune. “It has expanded into new fields, such as nanomedicine, in its investigation of widespread and devastating diseases.”



Mary and Wayne Hockmeyer (at left) and Purdue President France A. Córdoba (far right) look over a portrait of the Hockmeyers being held by Matt Bartlett and Sheila Miller, members of the Purdue Foundation Student Board. The portrait will hang in the facility.

This building reflects that expansion as structural biologists will now be neighbors with biomedical and nanotechnology engineers.”

The facility was made possible by more than \$17 million in gifts.



photo gallery
news and notables

Purdue dedicates Niswonger Aviation Technology Building

Dedicated in late September, the Niswonger Aviation Technology Building is the result of adding 18,200 square feet of learning space to the former aviation technology building. This expansion centralizes the department's operations and provides new lecture halls, classrooms, meeting rooms, a collaborative suite, and a new computer laboratory. The building also has been soundproofed to eliminate airplane engine noise from the nearby airport. The total project cost \$7.5 million.

“The opening of the Niswonger Aviation Technology Building makes it possible to better prepare tomorrow's pilots, airline managers, aeronautical technologists, and others who attend Purdue to join the aviation industry,” says Purdue President France A. Córdoba. “I'm grateful to Scott Niswonger and the many other donors who made this building a reality. The expansion and renovation of this facility will enable Purdue to take our aviation technology program to the next level.”

The Niswonger Aviation Technology Building is named after transportation and logistics executive Scott Niswonger of Greeneville, Tennessee. Niswonger graduated from Purdue's aviation technology program in 1968. In 2004 he made a \$4.6 million gift for construction of the new building and partial renovation of the existing facility. He also assisted in raising another \$2 million for the project.

In summer of 2007 the building was renamed in his honor.

“It's a privilege to have a role in maintaining Purdue's preeminence of training future generations of aviation professionals,” Niswonger says.



The Niswonger Aviation Technology Building located next to the Purdue Airport is named after transportation and logistics executive Scott Niswonger of Greeneville, Tennessee. Niswonger graduated from Purdue's aviation technology program in 1968.



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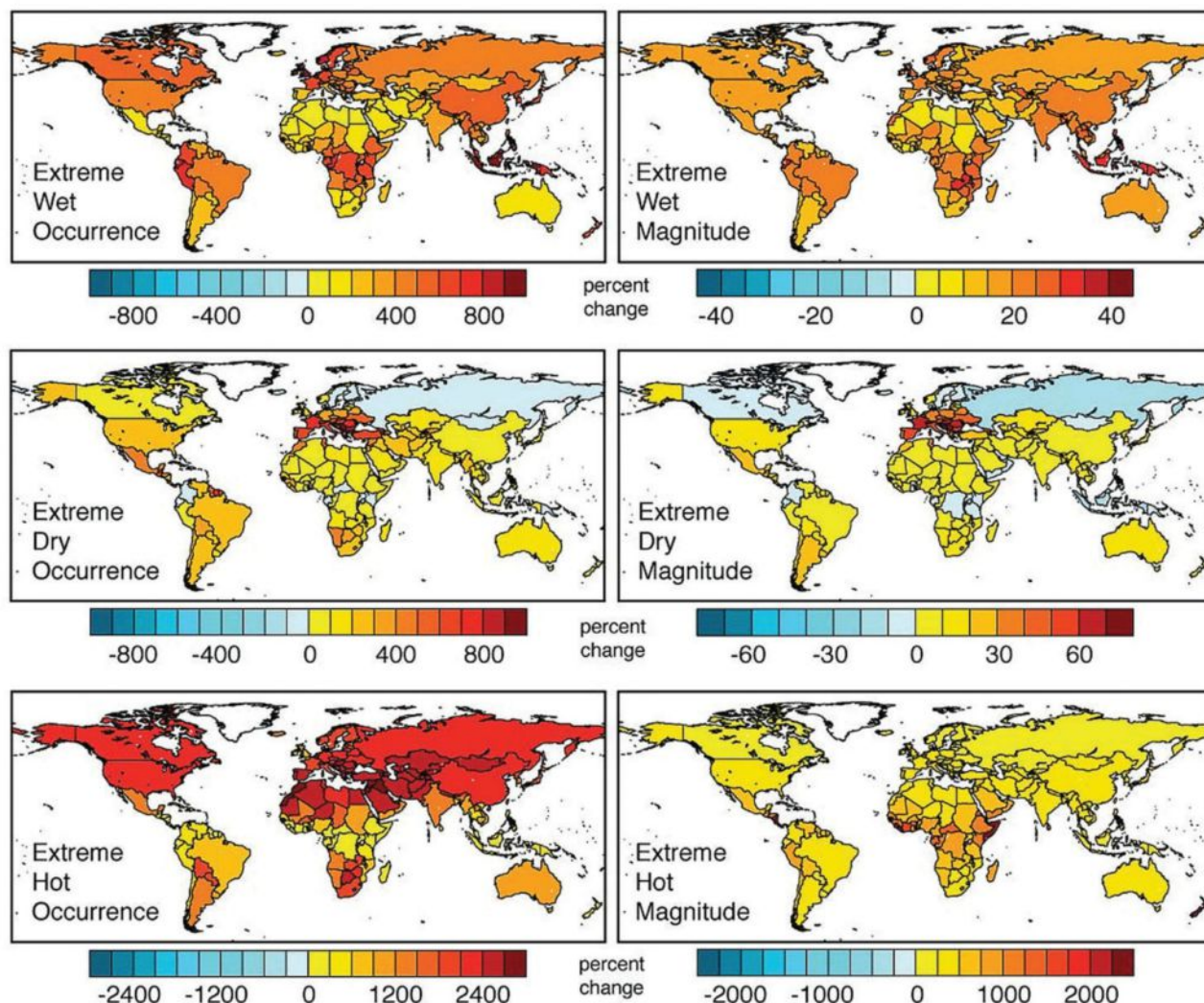
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Climate change could deepen poverty



Urban workers could suffer most from climate change as the cost of food drives them into poverty, according to a new study that quantifies the effects of climate on the world's poor populations.

A team led by Purdue researchers examined the potential economic influence of adverse climate events, such as heat waves, drought, and heavy rains, on those in 16 developing countries. Urban workers in Bangladesh, Mexico, and Zambia were found to be the most at risk.

"Extreme weather affects agricultural productivity and can raise the price of staple foods, such as grains, that are important to poor households in developing countries," says Noah Diffenbaugh, the associate professor of earth and atmospheric sciences and interim director of Purdue's Climate Change Research Center, who co-led the study.

"Studies have shown global warming will likely increase the frequency and intensity of heat waves, drought, and floods

These maps show projected changes in frequency and magnitude of climate extremes. A Purdue team found that the occurrence and magnitude of what are currently the 30-year-maximum values for wet, dry, and hot extremes are projected to substantially increase for much of the world.

in many areas. It is important to understand which socioeconomic groups and countries could see changes in poverty rates in order to make informed policy decisions."

Projecting the climate's effects

The team used data from the late 20th century and projections for the late 21st century to develop a framework that examined extreme climate events, comparable shocks to grain production, and the impact on the number of impoverished people in each country.

Thomas Hertel, a distinguished professor of agricultural economics and co-leader of the study, says that although urban workers only contribute modestly to total poverty rates in the

sample countries, they are the most vulnerable group to changes in grains production.

"Food is a major expenditure for the poor and, while those who work in agriculture would have some benefit from higher grains prices, the urban poor would only get the negative effects," says Hertel, who also is executive director of Purdue's Center for Global Trade Analysis. "This is an important finding given that the United Nations projects a continuing shift in population concentrations from rural to urban areas in virtually all of these developing countries."

With nearly one billion of the world's poor living on less than \$1 a day, extreme events can have a devastating impact, he explains.

"Bangladesh, Mexico, and Zambia showed the greatest percentage of the population entering poverty in the wake of extreme drought, with an additional 1.4 percent, 1.8 percent, and 4.6 percent of their populations being impoverished by future climate extremes, respectively," Hertel says. "This translates to an additional 1.8 million people impoverished per country for Bangladesh and Mexico and an additional half million people in Zambia."

The global climate model experiments developed by the Intergovernmental Panel on Climate Change, or IPCC, were used for the future projections of extreme events. The team used an IPCC scenario that has greenhouse gas emissions continuing to follow the current trend, Diffenbaugh says.

"The occurrence and magnitude of what are currently the 30-year-maximum values for wet, dry, and hot extremes are projected to substantially increase for much of the world," he says. "Heat waves and drought in the Mediterranean showed a potential 2,700 percent and 800 percent increase in occurrence, respectively,

and extreme rainfall in Southeast Asia was projected to potentially increase by 900 percent."

In addition, Southeast Asia showed a projected 40 percent increase in the magnitude of the worst rainfall; central Africa showed a projected 1,000 percent increase in the magnitude of the worst heat wave; and the Mediterranean showed a projected 60 percent increase in the worst drought.

A conservative estimate

Because the projected changes in extreme rainfall and heat wave events were too large for the current model to accept, only the extreme drought events were incorporated into the economic projections, making the projected poverty impacts a conservative estimate, he says.

To assess the potential economic impact of a given change in wages and grains prices, the team used data from each country's household survey. The estimates of likely wage and price changes following an extreme climate event were obtained from a global trade model, called the Global Trade Analysis Project, or GTAP, which is maintained by Purdue's agricultural economics department.

Diffenbaugh explains this is an initial quantification of how poverty is tied to climate fluctuations, and the team is working to improve the modeling and analysis system in order to enable more comprehensive assessments of the link between climate volatility and poverty vulnerability.

P Elizabeth K. Gardner (S'01)

Cheers to fighting Alzheimer's

The polyphenols found in red wine are thought to help prevent Alzheimer's disease, and new research from Purdue and Mount Sinai School of Medicine has shown that some of those compounds in fact reach the brain.

Mario Ferruzzi, a Purdue associate professor of food science; Connie Weaver, Purdue's head of foods and nutrition; and Elsa Janle, a Purdue associate professor of foods and nutrition, found that the amount of polyphenols from grapeseed extract that can reach a rat's brain is as much as 200 percent higher on the 10th consecutive day of feeding as compared to the first.

Many previous experiments, in which absorption was measured after single or sporadic doses, often found very little, if any, of the bioactive polyphenols reaching brain tissues. However, more chronic exposure appears to improve absorption.

"This shows that reasonable and chronic consumption of these products may be the way to go, rather than single, high doses, similar to drugs," says Ferruzzi, who collaborated on the research with Mount Sinai's Dr. Giulio Pasinetti. "It's like eating an apple a day, not a case of apples over two days every month."

Polyphenols, compounds found in the skins and seeds of grapes, are thought to prevent the formation of beta-amyloid protein, which creates the plaque in the brain that causes Alzheimer's disease.

Pasinetti, the Aidekman Family Professor in Neurology and director of the Center of Excellence for Novel Approaches



to Neurotherapeutics, says discovering how polyphenols are absorbed and distributed to the brain can impact researchers' understanding of the amount of grape products or red wine a person would need to consume to most effectively combat Alzheimer's disease.

"The most important thing is that when we follow the repetitive administration of this compound, we were able to observe the transfer of the compound to the brain," Pasinetti says. "This may help us figure out the proper concentration necessary to get these chemicals to the brain."

The Rare Breed: Plant Geneticist Fights Malnutrition

"Most people don't really understand the idea of being a corn geneticist." That's hardly surprising when Professor Torbert Rocheford launches into rapid-fire explanations of beta-carotene, beta-cryptoxanthin, hydroxylase converters, and an important project since becoming a Purdue faculty member last year, allele-specific marker assisted selection. But when he explains that he is boosting corn's vitamin A content to combat malnutrition in developing countries, Rocheford says, "They just think it's so cool."

Rocheford's work is a rare breed, on the cutting edge of plant genetics and the global fight against micronutrient malnutrition. He is part of the Harvest-Plus initiative — supported by the Bill and Melinda Gates Foundation and other donors — which is at the forefront of a revolutionary plan to combat malnutrition in the developing world. Rocheford and his colleagues have found the gene in corn that produces beta-carotene, the precursor to vitamin A. By selecting specific alleles — different iterations of the gene — Rocheford hopes to develop biofortified corn varieties rich in vitamin A.

Microscopic changes, worldwide impact

Rocheford works on the microscopic level, but increasing vitamin A content in corn would be a tremendous accomplishment. Vitamin A deficiency currently affects over four million children worldwide, causing 250,000 to 500,000 to go blind every year. It increases susceptibility to infection and can cause physical and mental retardation. These health problems and others caused by micronutrient malnutrition are especially pronounced in developing countries.

In many of these countries, poor people rely on corn as a major part of their diet, which means corn with high levels of vitamin A could help to drastically reduce vitamin A deficiency and related health problems. HarvestPlus aims to make micronutrients like vitamin A more widely available by breeding them into staple foods that are important in developing countries. Once Rocheford and the corn breeders he works with develop suitable vitamin A-rich corn varieties, HarvestPlus will work with developing countries to test and release the corn where it is most needed.



CATHERINE KANDIANIS

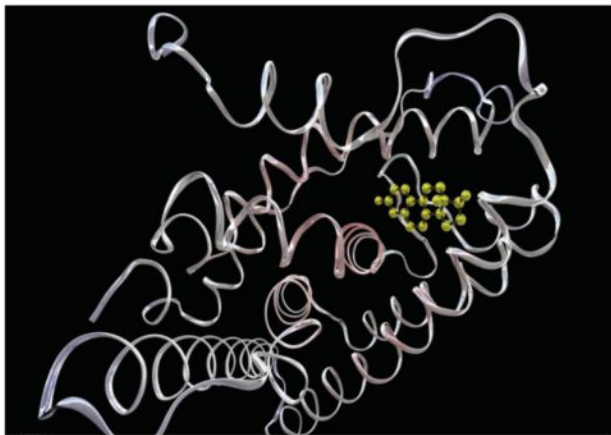
Corn that is rich in carotenoids tends to be more yellow and orange in color. Carotenoids are pigments essential for good vision that contain high levels of vitamin A.

Benefits beyond corn

Beyond the incredible nutritional benefits, Rocheford predicts even broader possibilities for his research. It provides a groundbreaking model for understanding and manipulating plant variation. His current research, for example, explains why marigolds do not produce vitamin A, despite having the same tell-tale orange color as vitamin A-rich carrots and sweet potatoes. According to his most recent findings, a hydroxylase reacts with beta-carotene to break down vitamin A in marigolds.

Rocheford thinks this kind of research, investigating the processes of allele selection and how plants produce certain chemicals or nutrients, has sweeping implications for plant-breeding technology and knowledge. When asked about his ultimate goal, he says it would be nice to know everything about the genetic mechanisms he studies, but he already knows crucial bits and pieces and believes this is enough to motivate new understanding of how and why crops are bred.

Buyer beware: Estrogen supplements not as effective as claimed



A model of a molecule of estradiol (in yellow), one of several estrogen steroid hormones produced by the sex glands in mammals, binding to an estrogen receptor.

Dietary supplements claiming to help postmenopausal women with bone health may not be doing what they say, according to new research from Purdue.

"We found that some plant-derived isoflavones have a modest effect on suppressing bone loss during post-menopause, but more concerning is many dietary supplements that claim to have the power of estrogen do not," says Connie Weaver, distinguished professor of foods and nutrition.

"It's buyer beware. Some of the supplements in our study claimed to be substitutes for estrogen, yet they weren't effective at all or weren't as effective as some of the current treatments for osteoporosis."

Estrogen hormone replacement therapy was the traditional treatment, but it is no longer recommended for the long term because of links to stroke, embolism, and breast cancer. Some individuals have harmful side effects with long-term use of bisphosphonates, the current main class of osteoporosis treatment drugs.

Weaver and her team looked at four popular isoflavones: soy cotyledon, soy germ, red clover, and kudzu. These plant-derived phytoestrogens are claimed to protect bone health from estrogen loss, which can lead to osteoporosis and even fractures.

The researchers compared the four isoflavones to a traditional bisphosphonate treatment, risedronate and estrogen plus progesterone. These traditional therapies decreased bone loss 22 percent to 24 percent, but only soy isoflavones from the cotyledon and germ significantly decreased bone loss by 9 percent and 5 percent, respectively.

The findings also indicate that the soy cotyledon was more effective because of its higher genistein content. Weaver's team is currently evaluating the role of genistein more closely.

"Before, we might have assumed that any isoflavone was equally effective, but we found that for a supplement to work it was because of the genistein content specifically," she says.

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Technology helps Parkinson's patients speak louder

Researchers have developed a new technology that helps Parkinson's patients overcome the tendency to speak too quietly by playing a recording of ambient sound, which resembles the noisy chatter of a restaurant full of patrons.

"People with Parkinson's disease commonly have voice and speech problems," says Jessica Huber, an associate professor in Purdue's Department of Speech, Language, and Hearing Sciences. "At some point in their disease they will have some form of voice or speech disorder that generally occurs a little later in the disease."

Approximately 89 percent of those with Parkinson's have voice-related change, which is related to how loudly they speak, and about 45 percent have speech-related change, or how clearly they speak.

"A major therapy is to get people to speak louder, which also may cause them to articulate more clearly," Huber says.

The most common therapy, the Lee Silverman voice treatment program, trains patients to speak louder in one-hour sessions four days a week for a month.

"Some Parkinson's patients do great with this approach, but others do not," Huber says. "They forget to keep speaking louder the minute they have left the therapy room. Lee Silverman tends to work less for people with later stages of disease or those who have some cognitive decline. So I wanted to know whether there was an easier way to cue people during therapy, rather than telling them, 'Try to be twice as loud,' or 'Try to focus on this sound meter and achieve this loudness.'"

With the help of background noise

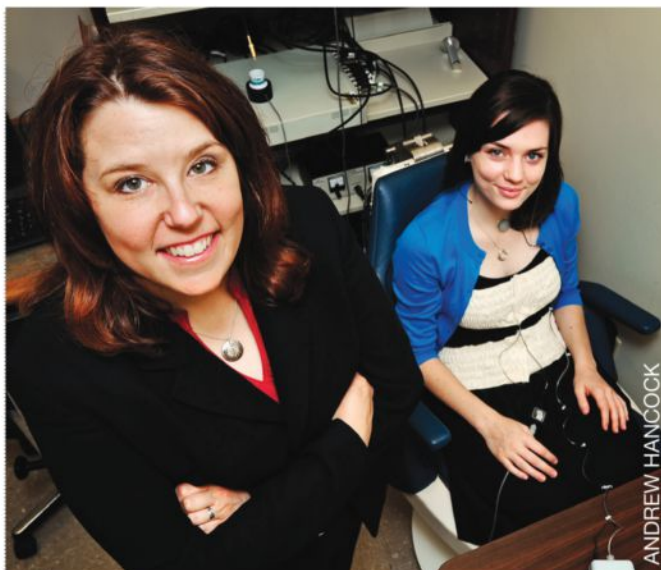
Huber's new approach asked the patient's to speak louder while a recording of background "multitalker babble noise" was played. The noise is essentially the sound of a restaurant full of patrons, but without the clattering silverware and clinking glasses.

"They had an easier time getting louder when I had the noise in the room," she says. "Ordinarily, when I asked them to be twice as loud they would say they couldn't. They couldn't speak 10 decibels louder, but when I turned on the babble noise, they spoke over 10 decibels louder."

The background sound elicits a well-known phenomenon called the Lombard effect, a reflex in which people automatically speak louder in the presence of background sound.

Huber created a new electronic technology using this principle. The voice-activated device automatically plays the background babble when the person begins to speak. A sensor placed on the neck detects that the person has begun to speak and tells the device to play the babble through an earpiece worn by the patient.

"I got the idea that if we train them with a natural cue in their everyday environment, we will probably get better



Jessica Huber, at left, an associate professor in Purdue's Department of Speech, Language and Hearing Sciences, and graduate student Meghan Moran demonstrate a new technology developed in Huber's lab that helps Parkinson's patients overcome the tendency to speak too quietly.

results," she says. "We ask them to wear the system for about four hours a day as they go about their daily routine."

Key sensor

A critical part of the research is to integrate the voice-detection sensor, called an accelerometer, developed in work led by biomedical engineering doctoral students Matias Zanartu and Julio C. Ho and biomedical engineering professor George Wodicka, head of Purdue's Weldon School of Biomedical Engineering.

"This sensor is crucial because it is essential that the background babble noise only turn on when the subject talks," Huber says.

Six patients wore the portable system for eight weeks. Data collected showed the system effectively prompts Parkinson's patients to speak louder and more clearly.

"Their speech changes significantly," says Huber, who is working with Meghan Darling, a doctoral student in Speech, Language, and Hearing Sciences.

"There have been times where I have called patients and they've had the device on and I didn't really recognize them. And these are patients I've known for a long time. This is beneficial also because it trains them in their everyday environment — in their homes, with their spouses, in their churches, in their social groups."

P Emil Venere

Growing urban areas affect severe weather

Previously rare big city storms — like a tornado August 19 that downed trees and ripped off roofs in downtown Minneapolis and the powerful thunderstorms in New York City a day earlier — may not be so unusual anymore.

As large urban areas continue to expand, they appear to influence tornadoes and other severe weather, research suggests. Cities could be even more at risk if located in a region experiencing a wet fall or winter, according to researchers from Purdue and the University of Georgia.

One study by professors Dev Niyogi at Purdue and Marshall Shepherd at Georgia found that drought in the fall and winter appears to decrease the number of spring and summer tornadoes in the U.S. Southeast. It is possible that particularly wet fall and winter seasons may lead to more tornado activity.

The 2008 study found Atlanta's sprawling urban landscape, a prolonged drought in the region and scattered rainfall just before the storm combined to intensify and pinpoint the tornado. The twister, with 130-mile-per-hour winds, killed one person and caused \$250 million in damage.

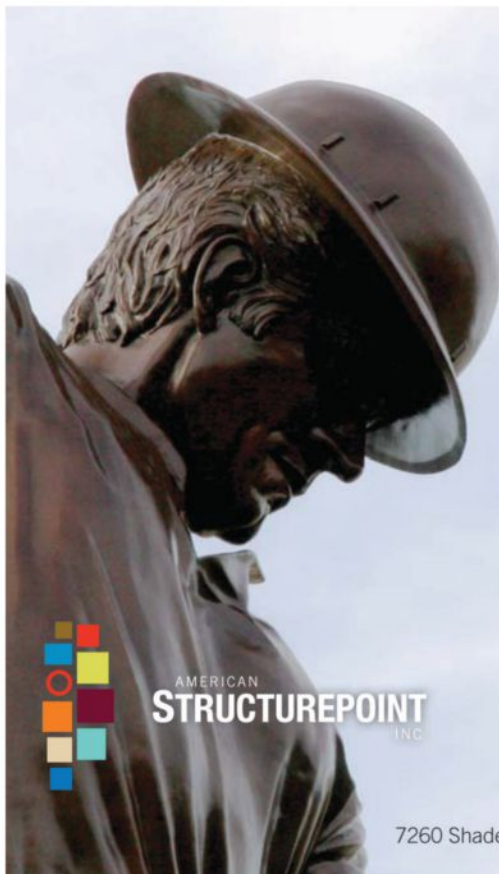
"As we become more urbanized, we will probably start to see tornadoes in more urban areas," says Niyogi, a Purdue earth and atmospheric sciences associate professor and the Indiana state climatologist. "I don't think what happened in Atlanta is unique."

Niyogi's Purdue lab is researching indications that Indianapolis may be soaking its neighbors by shedding thunderstorms.



In the Indianapolis area, Purdue researchers noticed rural areas around Indianapolis, particularly downwind, consistently receive more rain than the urban center. Lei, a doctoral student in Niyogi's lab, says it could be that warming of the air over the city causes storms to hold water until reaching cooler rural areas. The effect is like the release of a warm breath resulting in condensation on a cold winter's morning.

Lei's modeling indicates that doubling or tripling the size of Indianapolis might drop even more rain outside the city.




Defining the built environment

James A. Wurster, BSCE-59 (retired) Willis R. Conner, BSCE-76 Dennis S. Hutchinson, BSCNT-74 Michael H. Wenning, BSE-81 James A. Kovacs, BSNRES-80 David A. Day, BSBCT-80, BSCE-84 Clinton L. Sparks, BSCE-71 Cynthia L. Fort, MS-81 Todd A. Rutledge, BSCNT-94 Gregory R. Susemichel, BSCE-96 David P. Machala, BSCE-94 Steven R. Bruns, BSCE-84, MSCE-85 Myra Pflum Day, BSCFS-81 Robert E. Creviston, Jr., BSCNT-74 Kenton M. Moore, BAOLS-94 Shelby L. Bultemeier, BSCPT-99 Richard R. Ceele, BSCNT-89 Jack A. Lashenik, BSABE-98 William S. Lyon, BSCE-98 Webb Bernhardt, BSCE-77 Benjamin A. Braun, BSCE-01 Randal J. Sage, BSCE-80 Michael J. Richardson, BSCE-00, MSCE-01 Michael T. Latz, BSCE-85, BSLS-85 Christopher J. Schultz, BSCE-01 Zachary T. Wolf, BSCE-00 Rodrigo M. Pizarro, BSCE-02 Matthew J. Kohut, BSCE-02	Craig M. Parks, BSCE-97 Briana M. Bosse, BSNRES-01 Wing H. Lau, BSCE-00 Jeffrey N. Spicer, BSNRES-03 Andrew H. Gerdorn, BSLSE-82, BSCE-85 Craig A. Shroyer, BSAE-96 John J. Tucker, BSCE-95 Richard J. Zielinski, BSCE-86 Katherine E. Graham, BSCE-04 Eric J. Farny, BSCE-04 Ellie L. Stanoch, BSCE-04 Natalie S. Parks, BSCE-97 Christopher J. Samsel, BSCM-01 Jonathan A. Day, BSBCM-04 Jarvis L. Joiner, BSCE-04 Jeremy C. Schmitt, BSCE-98 Hardik R. Shah, BSCE-04, MSCE-05 J. Samuel Balog, BSCE-00 Daniel S. Osborn, BSBCM-02 Patrick K. Wooden, BSCE-99 Nathan D. Anderson, BSCE-04 Luke J. Leising, BSCE-98 Brian C. Fuller, BSCE-01 Ryan M. Cummins, BSCE-06 Timothy M. Jensen, BSCE-06 John M. Krupski, BSCE-06 Jeffrey R. Swenson, BSCE-83 Jason E. Main, BSF-98	Jessica L. Stapleton, BSLSE-01 Ting Wei, MSCE-03 Alison M. Krupski, BSCE-06 Jason M. Taylor, BSCE-07 Michael J. Smith, BSCE, BSLSE-00 Brianna J. Chapman, BSNRES-07 J. Sebastian Mino, MSC-04 Robert A. Barnes, BAPSY-01 Alexander J. Janeczek, BSBCM-05 Kevin D. Krulik, BSCE, BSLSE-99 Kenneth R. Olson, BSCE-07 Daniel J. Kmiecik, BSCE-06 Adam S. Urschel, BSCE-04 Joseph A. Ray, BSCE-08 Joseph A. Dubyel, BSCE-08 Regina Z. Tirinnanzi, BSLAR-82 Christopher J. Bonanne, CIT-08 Hayley M. Steele, BSNRES-08 Gerald E. Kinyon, BSCE-63 Jeremy L. Grenard, BSCE-99, MSCE-01 Christopher Ogg, BSCE-90, MSCE-91 Emily A. Dunn, BA-08 Nathan D. Harris, BSCE-07, MSCE-09 Jordan C. Lynam, BSCGT-09 Andrew R. Taylor, BSCE-09 Lauren M. Day, BSCE-09 Daniel A. Burch, BSCE-09
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Green tea and lemon save animals from testing

An animal study at Purdue has shown that adding ascorbic acid and sugar to green tea can help the body absorb helpful compounds and also demonstrates the effectiveness of a model that could reduce the number of animals needed for these types of studies.

Mario Ferruzzi, associate professor of food science and nutrition, adapted a digestion model with human intestinal cells to show that adding ascorbic acid to green tea would increase the absorbability of catechins found in the tea. Catechins, a class of polyphenols common in tea, cocoa, and grape, are antioxidants thought to fight heart disease, stroke, cancer, diabetes, and other health problems.

Initial test saves time, money

Ferruzzi, Elsa Janle, a Purdue associate research professor of foods and nutrition, and Catrina Peters, a Purdue graduate student in nutrition, were able to demonstrate that adding ascorbic acid, sucrose or both together increases by as much as three times the amount of catechins that can be absorbed into the bloodstream. The results of the *in vivo* study compared well with those predicted by the *in vitro* model.

"This model may be used as a pre-emptive screening tool at very little cost before you do expensive tests on animals or humans," says Ferruzzi, whose findings were published in the early online edition of the journal *Food Research International*. "If you want to get human screening off the ground, it takes months. If you want to use this model, it takes hours."

The model charts how the digestive stability, solubility, and absorption of polyphenols changes based on modifications to a beverage's formula. It will not be exact in terms of measurements, but when compared to the *in vivo* test in rats, the model's predictions matched directionally to the *in vivo* study and were relatively close proportionately.

No animals needed

Ferruzzi says testing with the model could allow researchers to predict how a new product formula might change the product's properties, reducing the number of animals needed for testing to only products that showed desired characteristics in the model. The model also can be adapted to simulate the digestive characteristics of other animals or humans as originally intended.

"As long as we know the typical gastrointestinal conditions of an animal and the volumes, we can adapt the model to mimic those conditions," Ferruzzi says. "You don't have to do expensive precursor studies."



TOM CAMPBELL

An *in vivo* study supports earlier research showing that adding ascorbic acid and sugar to green tea may increase the amount of antioxidants the body is able to absorb, according to Mario Ferruzzi, associate professor of food science and nutrition.

The *in vivo* study backed up the model study that showed adding sugar and vitamin C to green tea enhanced the body's ability to absorb polyphenols. Ferruzzi says that adding lemon juice or other citrus juice to tea would do the trick, or consumers could look for ready-to-drink products that contain 100 percent of the recommended amount of vitamin C or ascorbic acid on the ingredient list.

"Having that vitamin C seems to do it," Ferruzzi says. "And if you don't want to squeeze a lemon into your cup, just have a glass of juice with your green tea."

P Brian Wallheimer

Laser processes promise better artificial joints, arterial stents



ANDREW HANCOCK

Purdue mechanical engineering doctoral student Shaoyi Wen, at left, and technician Andrew Hecht review data using a “laser deposition” system. The system works by depositing layers of a powdered mixture of metal and ceramic materials, melting the powder with a laser and then immediately solidifying each layer to form parts.

Researchers are developing technologies that use lasers to create arterial stents and longer-lasting medical implants that could be manufactured 10 times faster and also less expensively than is now possible.

New technologies will be needed to meet the huge global market for artificial hips and knees, says Yung Shin, a professor of mechanical engineering and director of Purdue’s Center for Laser-Based Manufacturing.

The worldwide population of people younger than 40 who receive hip implants is expected to be 40 million annually by 2010 and double to 80 million by 2030. In addition to speeding production to meet the anticipated demand, Shin says another goal is to create implants that last longer than today’s.

“We have 200,000 total hip replacements in the United States,” he says. “They last about 10 years on average. That means if you receive an implant at 40, you may need to have it replaced three or four times in your lifetime.”

Mixing material to mimic bone

One of the researchers’ techniques works by depositing layers of a powdered mixture of metal and ceramic materials, melting the powder with a laser and then immediately solidifying each layer to form parts. Because the technique enables parts to be formed one layer at a time, it is ideal for coating titanium implants with ceramic materials that mimic the characteristics of natural bone, Shin explains.

“Titanium and other metals do not match either the stiffness or the nature of bones, so you have to coat it with something that does,” Shin says. “However, if you deposit ceramic on metal, you don’t want there to be an abrupt change of materials because that causes differences in thermal expansion and chemical composition, which results in cracks. One way to correct this is to change the composition gradually so you don’t have a sharp boundary.”

The gradual layering approach is called a “functionally gradient coating.”

Researchers used their laser deposition processes to create a porous titanium-based surface and also a calcium phosphate outer surface, both

designed to better match the stiffness of bone than conventional implants.

Designed with patients in mind

The laser deposition process enables researchers to make parts with complex shapes that are customized for the patient.

“Medical imaging scans could just be sent to the laboratory, where the laser deposition would create the part from the images,” Shin says. “Instead of taking 30 days like it does now because you have to make a mold first, we could do it in three days. You reduce both the cost and production time.”

The laser deposition technique lends itself to the requirement that each implant be designed specifically for each patient.

“These are not like automotive parts,” Shin says. “You can’t make a million that are all the same.”

The process creates a strong bond between the material being deposited and the underlying titanium, steel, or chromium. Tests showed the bond was at least seven times as strong as industry standards require, he explains.

The researchers also are developing a technique that uses an “ultra short pulse laser” to create arterial stents, which are metal scaffolds inserted into arteries to keep them open after surgeries to treat clogs. The laser pulses last only a matter of picoseconds, or quadrillionths of a second.

Because the pulses are so fleeting, the laser does not cause heat damage to the foil-thin stainless steel and titanium material used to make the stents. The laser removes material in precise patterns in a process called “cold ablation,” which turns solids into a plasma. The patterns enable the stents to expand properly after being inserted into a blood vessel.

P Emil Venere

class notes

Do you know that you can choose to have your e-mail address published with your Class Notes entry? Just fill out the "Class Notes" form at www.purduealum.org and give us permission to publish your address.

1930

Louis Stephen (ME'39) and his wife Glenna Stephen, Redkey, IN, will celebrate their 70th wedding anniversary on November 23.

1940

Charles R. Reid (AAE'49), Carmel, IN, joined Merrill, Lynch, Pierce, Fenner, and Smith as vice president of global wealth management.

1950

Jack Sowle (ME'54), Senecaville, OH, married Patti (York) Sowle (LA'56) on July 16.

1960

Attention Class of 1960: Plan to come to Purdue for your 50th Class Reunion on September 23–25, 2010. Reconnect with your classmates, return and learn at Alumni Short Course, tour the campus, and celebrate the golden anniversary of your Purdue graduation. Three days of exciting events are being planned so keep checking www.purduealum.org/alumniweekend for updates.

Rebecca Moore Lyles (EDU'64), Laguna Hills, CA, is the offering manager-information management education for the IBM Software Group.

Chi Hau Chen (PhD EE'65), North Dartmouth, MA, has been a professor at the University of Massachusetts Dartmouth for 41 years.

Henry F. Veldman (ME'66, MS ME'68), West Bloomfield, MI, retired from Tata Technologies on August 1.

Daniel R. Sacks (LA'67), Indianapolis, IN, retired in May as the program director for the automated client eligibility system with the state of Indiana Family and Social Services Administration.

Thomas Barnhart (S'68, MS'73), Lima, OH, retired in June after 41 years in education, the last 39 at Lima Central Catholic High School. He is currently working part-time as a statistics instructor at Ohio Northern University.

Jerry A. Leenheer (MS A'68, PhD A'70), Golden, CO, retired from the Water Resources Division of the U.S. Geological Survey in 2006 and continues to serve as scientist emeritus. In March he published an online book titled *Systematic Approaches to Comprehensive Analyses of Natural Organic Matter*. It is available through the Northeastern University Web site.



Jim Dehner (CE'69, MS M'76), Copley, OH, completed his first Ironman triathlon on July 26 in Lake Placid, New York, at age 62.

Ralph Taylor (LA'69), Indianapolis, IN, was recently elected as president of the Indiana Basketball Hall of Fame Board of Directors.

Lt. Col. Theodore J. Williams Jr. (LA'69), Webster Groves, MO, was named by *Super Lawyers, Corporate Counsel Edition* as a top corporate attorney for 2009.

1970

L. Brian Rush (MTH'70), Santa Ana, CA, was elected president of the Orange County/Long Beach Chapter of the California Society of Certified Public Accountants.



Michael Corso (AAE'71), Fort Myers, FL, was included in the 2009 Florida Super Lawyers lists.

C. Bruce Harmon (AAE'71), Colorado Springs, CO, was promoted to dean of doctoral computer science at the Colorado Technical University Institute for Advanced Studies. He will remain the dean of engineering and computer science.

James W. Swanson (LA'71), Alexandria, VA, is the general counsel for the Military Officers Association of America. He oversees all legal activity for the nation's largest veterans organization.

Philip C. Borst (A'72, DVM'75), Indianapolis, IN, was elected to the Indiana Basketball Hall of Fame Board of Directors.

Bonnie S. Schnitta (S'73), East Hampton, NY, announced her company, SoundSense, LLC, recently became certified as a Woman Owned Business Enterprise.

James Stanfield (CS'73), Murray, UT, is employed as a systems engineer for L-3 Communications in Salt Lake City, Utah.

Edward Bielski (AAE'74, MS M'76), Winter Park, FL, has taken a job as finance director of Nangwik Services in Jacksonville, Florida. ebielski@cfl.rr.com

Carl Foreman (BS'77), Hot Springs Valley, AR, was elected to serve as chairman of the board for Lions World Services for the Blind.

Brian A. Libby (PhD LA'77), Faribault, MN, published *Storm Approaching*, the first novel in a Mercenaries series.

Charles E. West (CNE'78), Shelbyville, IN, retired from the Shelbyville Police Department after more than 28 years.



Cynthia E. Lett (CFS'79), Silver Springs, MD, wrote a new book *That's So*

Annoying: An Etiquette Expert on the World's Most Irritating Habits and What to Do About Them.

1980

Jorge Haddock (PhD IE'81), Fairfax, VA, is the dean of the School of Management at George Mason University.



Deborah Stiffler (NRS'82), Indianapolis, IN, received the Oncology Nursing Society Publishing Division Excellence in Writing Award for Qualitative Research on May 13.

Karen Weaver (LA'83), Philadelphia, PA, graduated with a doctorate in May from the University of Pennsylvania Graduate School of Education. Her dissertation topic, *The Launch of the*

Big Ten Network, is under consideration for publication. She is the director of athletics, intramurals and recreation at Penn State Abington.

Sheila Robbins Campbell



(A'84), Downers Grove, IL, accepted the position of receptionist for Furnetic — The

Chicago Center for Veterinary Medicine, a primary care veterinary clinic sponsored by the University of Illinois.

Ellen R. Kerr (IE'85), Phoenixville, PA, was promoted to Western Division Engineering Manager of FM Global in Plano, Texas.

Catherine L. (Steffus) Northcott (EDU'86), Marlborough, NH, married John Northcott on July 1.



Tom Spears (IE'86) and **Paula (Miles) Spears** (IM'86), Ashland, NE, adopted five-year-old twins, Candace Selam and Sarah Fikir, from Ethiopia.



James D. Marrone (EE'87, MS EE'88), Round Rock, TX, is ready to

head to Purdue with his football fan daughters, Julia Rose (5), Sylvia Maria (6 months), and Louisa Helen (3).

Claudia (Mills) Anderson (ME'88), Novi, MI, has been promoted to global director of quality at Visteon Corporation.

John Anderson (ME'88), Novi, MI, has been promoted to president of Grupo Antolin North America.



Lynette Love (BA'88), Chicago, IL, has been honored with an RRB "Award for Excellence" in the performance of her duties.

Nazeh Ben Ammar (S'89, IE'89), Tunis, Tunisia, was elected president of the Tunisian American Chamber of Commerce TACC — a non-governmental organization to encourage networking among businesspeople.

Christine Lee Hawk (NRS'89), Indianapolis, IN, is a case management nurse with Precision Rx Specialty Pharmacy. mrscityhawk@comcast.net

Abbreviation Key

A	Agriculture
AAE	Aeronautical/Astronautical Engineering
AAS	Associate of Applied Science
AS	Associate of Science
BA	Bachelor of Arts
BM	Biomedical Engineering
BS	Bachelor of Science
CE	Civil Engineering
CERT	Certificate
CET	Civil Engineering Technology
CFS	Consumer and Family Sciences
ChE	Chemical Engineering
CEM	Construction Engineering & Mgmt.
CNE	Construction Engineering
DP	Doctor of Pharmacy
DVM	Doctor of Veterinary Medicine
E	Engineering
ECE	Electrical and Computer Engineering
EDU	Education
EE	Electrical Engineering
FR	Friend of Purdue Alumni
HDR	Honorary Doctorate
HSC	Health Sciences
IE	Industrial Engineering
LA	Liberal Arts
M	Management
MA	Master of Arts
MBA	Master of Business Administration
MS	Master of Science
ME	Mechanical Engineering
MSE	Materials Science & Engineering
NE	Nuclear Engineering
NRS	Nursing
P	Pharmacy
PhD	Doctorate
S	Science
T	Technology
V	Veterinary Medicine
-	Indicates attendance at Purdue

Purdue Alumni members' names are bolded.

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Anthony (Tony) W. Miller (IE'89), Los Angeles, CA, was named as President Obama's nominee for deputy secretary of education at the U.S. Department of Education.

1990

Bruce A. Benson (CE'90), Lumberton, TX, was promoted to manager of quality assurance by Motiva Enterprises LLC.

Laurie A. Clark (A'90), Ten-mile, OR, is an associate scientist at the National Council for Air Stream Improvement.

Vicki A. (Richardson) Gregory (LA'91), Fowler, IN, was named the new executive director of Westminster Village Retirement Community on August 10.

Barbara A. Lintzenich (A'91), Cincinnati, OH, married Jason Henry on January 3.



Camille (Dozier) McKinley (ECE'91), Chicago, IL, was recently promoted to WMS Gaming to the position of principal engineer.

Michael A. Pennington (S'91, MS'99), Middletown, RI, published his first spy novel, *Zhena*, with Hearts on Fire Books. www.heartsonfirebooks.com

Tricia E. (Reed) Schuessler (LA'92) and Ron F. Schuessler, West Lafayette, IN, welcomed the birth of their twin girls, Kylie Francis and Kenzie Michelle, on July 5.

Brian T. Pilotte (CERT A'92) and Rachel M. Johnson, welcomed a son on June 29.

Susan (McConihay) Seidensticker (IE'92) and her husband, Stephen Seidensticker, League City, TX, welcomed the birth of their son, Sean, on February 19.



Jeffrey Norton (S'93, MS M'98) and **Diane (Feutz) Norton** (A'95, DVM'98),

Glen Ellyn, IL, welcomed the arrival of their son, Maxwell Simon, on May 19. Max came home to sisters, Amelia, Elizabeth, Julie, and brother, Jack.

Judd R. Choate (MA LA'94, PhD LA'97) Denver, CO, is the new director of the Colorado Division of Elections. juddchoate@comcast.net

Brad Jennewein (ChE'94) and Tricia Harrison (P'94), Overland Park, KS, recently moved their family to the Kansas City area.

Shelese E. Woods (LA'94) Franklin, IN, received an Integrity Award from the Inspector General for the United States Department of Health and Human Services for her prosecution of several healthcare fraud matters.

Ronald L. Galle (M'95), Carmel, IN, was named vice president and treasurer of Indianapolis Motor Speedway LLC and treasurer of the Indianapolis Motor Speedway Corporation.

Robert B. Pinchot (T'95) and Pamela J. Little, welcomed a daughter on May 1.

Jennifer L. Ping (LA'95), Indianapolis, IN was chosen as a finalist for Indy's Best and Brightest in Government category.



John D. Crabtree (CE'96) and **Michelle E. (Hannas) Crabtree** (CFS'90),

Alexandria, VA, welcomed the birth of their son, Tyler James, on August 14.

Andy S. Hylton (T'96), Antioch, TN, is the senior project manager with Turner Construction currently managing the Music City Center.

Lynn Riddle (HSC'96), Greenwood, IN, recently accepted a position as an associate project manager with CH2M Hill in their Indianapolis office in the Water Business Group. She also welcomed the birth of her third child on May 30, Drake Bennett.

Randall S. Brooks (CS'97), Apollo Beach, FL, was promoted to an engineering fellow of cyber defense solutions for Raytheon Company's Network Centric Systems.

Karl M. Gruenberg (MS ME'97, PhD ME'01), Dayton, OH, and his wife, Karen (CFS'97), welcomed the birth of their son, Erik, on March 5.

Larry L. Kilgorge (T'97), Lafayette, IN, retired as an evening custodial supervisor from Purdue University on August 1.



Wayne A. Kauchak (ChE'97) and **Lara I. Kauchak**,

Victoria, MN, welcomed the birth of their second daughter, Sabrina Evelyn, on June 9.

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Dick Strauss (AAE' 73) *Realtor*



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Brett M. Swick (LA'97) and **Jennifer M. Liu** (M'98), welcomed the birth of twin sons on May 26.

Sandra Bokach (ChE'98), Columbus, OH, married James Clark on May 5.

Azura Domschke (LA'98), Lancaster, MA, graduated from Fitchburg State College with a master of science in applied communications. She is the manager of integrated media for the alumni office at Worcester Polytechnic Institute.

Ratul Shah (ME'98) and Heather (Jarka) Shah (M'99) were married on April 4 in St. Pete Beach, FL.

Joseph (Joe) Kelsay (A'99), Whiteland, IN, has accepted the position of state director of agriculture.



Neil E. Wisker (CEM'99), and **Angela Elizabeth (Herbstritt) Wisker** (CE'99), Naperville, IL, welcomed the birth of their son, Luke Edward, on June 5.



Jacob L. Jones (ME'99, MS ME'01, PhD MSE'04), Gainesville, FL, was named a recipient of the Presidential Early Career Award for Scientists and Engineers by President Obama. It is the highest award bestowed by the U.S. government on independent researchers.



Donald "Angus" MacKelvey (A'99), Cheyenne, WY, (left) and Ronald "Ron" Lester (S'80), Colorado Springs, CO, (right) take a minute to show their Purdue pride on the Greenland ice sheet.

Natasha R. Smith (T'99) and John Brockhaus, welcomed the birth of their daughter on May 15.

2000

Constance L. Danner (CE'00) married Anthony A. Solina on May 30.

Ann (Jacobson) Aliano (S'00) married Rich Aliano on September 29 in Lodi, CA.

Ryan M. Dorschel (LA'00) married Kelli Kirchofer on May 9.



Doreen M. Jimenez (M'00), Cedar Lake, IN, graduated from the University of Notre Dame's Executive MBA Program. The program consisted of an international studies portion where she studied at the prestigious Koc University and Bosphorous University in Istanbul, Turkey and at the University of Oxford, Oxford, United Kingdom. She is employed as the manager of IT financial implementations for Junction Solutions Consulting.

Carmen E. Morrissey (LA'00), Columbia, MO, married Ronald K. Rowe II (PhD LA'08) on June 27.

Ryan Newton (T'00) and **Marisa Newton** (LA'01), Washington, IL, welcomed the birth of their daughter, Highlyn Aleece, on March 15.

Julie E. Simon (T'00) married Hossein Fatemi on June 6.



Kim-Phuong Le Vu (MS LA'00, PhD LA'03), Westminster, CA, received the 2009 Early Academic Career Excellence Award at California State University, Long Beach (CSULB).

Ashley A. Dawson (EDU'00) and Michael S. Bottorff (ENG'01), were married on April 4.



Sarah E. (Buss) Huerta (EDU'01), Crystal, MN, and her husband, Craig, welcomed a baby boy, Connor Brian, on April 24.

Nichole B. (Mann) King (A'01), Anderson, IN, and husband, Matthew N. King, welcomed the birth of their son, Garrett Matthew, on June 4.



Vanessa M. Naglich (T'01) married Nicholas Dister on May 24 in Tampa, FL.

Traci Naile (A'01), College Station, TX, is an assistant professor in agricultural communication and journalism at Texas A&M University. osuboiler@aol.com

Hannah J. (Thomason) Ramsland (LA'01) married Jason Ramsland on May 30 in Indianapolis, IN.

Aaron L. White (CPT'01) and **Melissa B. Fennell** (CPT'01) welcomed the birth of their daughter on April 3.

Alex Fleck (AAE'02) and **Kacie Burton** (AAE'01), Lexington Park, MD, welcomed the birth of their daughter on June 9.

David A. Hornthal (IE'02, MS IE'03), Evanston, IL, received his MBA with honors from the Kellogg School of Management at Northwestern University.



Shaun Perrill (T'02) and **Brandy Wethington** (T'02), Clayton, IN, met while attending Purdue and were married on October 25, 2008. brandywethington@hotmail.com

Nicholas R. Iverson (T'02) married Tricia K. (Venderly) Iverson (LA'02) on July 26 in Danville, IN.

John W. Apolzan (LA'03) and **Amanda G. Bruns** (NRS'02), Frankfort, IN, welcomed the birth of their son on January 27.



Kelly J. Cory (LA'03), Pasadena, CA, announced the grand opening of her new businesses, The Life You Desire ~ LBGTQ Relationship Coaching. www.lifeyoudesire.com



Eileen L. Looby (A'03), Lake Forest, IL, received her master's of business administration, graduating with honors in June from Lake Forest Graduate School of Management. She is continuing her career in floriculture as vice

president of Lake Forest Flowers. She also hosts a local cable TV show called *Inside Lake Forest* produced by the city of Lake Forest to promote local businesses.

Jeffrey L. Pressler (IE'03) and **Emily E. Updike** (CFS'02), Indianapolis, IN, welcomed the birth of their daughter on October 20, 2008.



Stacy Leann Schaufele (HSC'03), Pinellas Park, FL, welcomed a daughter, Kendall Ruth, on December 12, 2008.

Holly (Wilson) Denson (CFS'03) married Kyle Denson on August 1 in Lafayette, IN.

Michael D. Vallaly (T'03), Chicago, IL, and his wife Kristin L. (Tomey) Vallaly (LA'04) welcomed the birth of their daughter, Sarah Catherine, on May 24. kvallaly@yahoo.com

Crystal Yazvac (T'03), Henrico, VA, is a design engineer at Hill Phoenix.

Stacy L. Zolondz (HSC'03) and Eric W. Schaufele welcomed their daughter on December 17, 2008.

Benjamin Burkel (S'04), Bend, OR, is a weekday morning broadcast meteorologist for KTVZ- NBC Affiliate.



Justin M. Kniepman (M'04), Saint Lois, MO, obtained the Certified Information Systems Auditor (CISA) designation.



Adam W. Schildmeier (CE'04) and **Amanda D. Emrick** (CFS'04), Port Saint Lucie, FL, welcomed the birth of their daughter, Ava Dawn, on June 16.

Cami (O'Conner) Still (HSC'05), Indianapolis, IN, married Allen Still (M'05) on August 8 in Indianapolis, IN.

Blondel Brinkman (A'06), Silver Spring, MD, published a book titled *Farmland Preservation and Conversion: An Econometric Approach and the Impact for the North-eastern United States*. It is available on Amazon.

Bradley J. Fetters (ME'06) and Jenna Hoelscher, (S'09), were married on July 18.

Christopher Siple (LA'06), Cincinnati, OH, is currently deployed to support Maritime Security Operations, which provides crisis response capability and increases theater security cooperation and forward Naval presence in the Fifth and Sixth Fleet areas of operation.

Ingram R. London (T'07) married Jeremi (Hayes) London (IE'08), on May 17 in St. Louis, MO.

Zachary E. Tatlock (S'07) married Anne (Schwichtenberg) Tatlock on July 14 in Minnesota.

Abe Walton (T'06, PhD T'09), Pendleton, IN, and his wife, Dustie J. Walton (T'08), welcomed the birth of their second daughter, Briley, on April 17.



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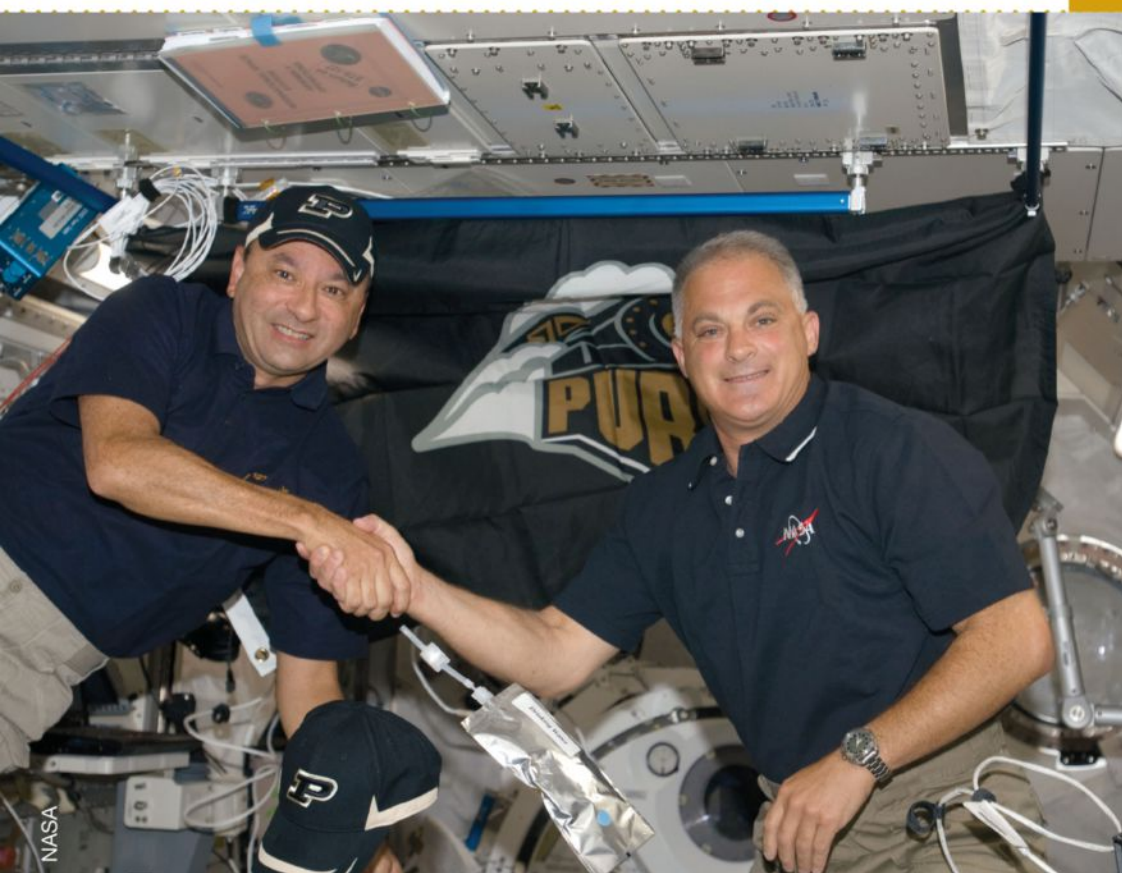


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Purdue Astronauts “Boiler Up” in Space

ALUMNI PROFILE



Mark Polansky and David Wolf

Wearing Boilermaker caps and floating weightless in front of a Purdue University banner, astronauts Mark Polansky (AAE'78, MA AAE'78) and David Wolf (EE'78) were flying high this summer during the 40th anniversary of the first moon landing.

In July, Polansky and Wolf flew the Space Shuttle Endeavor to the International Space Station 220 miles above the earth. They were there on July 20th when more than 2,000 people gathered at the Smithsonian Institute Air and Space Museum in Washington, DC, to celebrate the day Neil Armstrong (AAE'55, HDR E'70) took “one giant leap for mankind.”

The Apollo 11 crew was present for the ceremony.

A shout out from space

At a key moment during the program Polansky and Wolf gave a live talk from space with their Boilermaker caps and banner. They began by announcing they were both Purdue graduates from 1978 and ended with a fist bump and “Go Boilers.”

When the program returned to earth, Master of Ceremonies Neil Tyson, a renowned astrophysicist and television personality who is the Frederick P. Rose Director of the Hayden Planetarium at the American Museum of Natural History in Manhattan, summed up what the Purdue astronauts had to say.

“I think we got the point,” Tyson said. “Purdue is a great school.”

“We did plan this,” Polansky says. “NASA sent up a script. But we did what we thought was right, based on ourselves and our University.”

Wolf says in addition to their own love for Purdue, the astronauts also wanted to honor Armstrong's long and close association with the University. He says they knew Armstrong's moon landing partner, Aldrin, who graduated from the U.S. Military Academy at West Point, would understand.

“Buzz is a great guy,” Wolf says. “But he didn't go to Purdue. Nobody is perfect.”

Long-standing Purdue connections

Purdue alumni have now flown on 42 shuttle missions and this marked the seventh time two Boilermakers have launched into space together. Wolf and Polansky first met in 1974 as freshmen in Cary Quad.

“It's great to fly with someone you know like that, because you've developed a long-time trust,” Wolf says. “And in our case, it was fun because we have such a positive history.”

It was Polansky's third shuttle mission, his second as commander. Among his responsibilities was docking the shuttle with the International Space Station.

“That experience is both exhilarating and terrifying,” he says. “You look out the window and see the enormity of the Space Station and realize it's your job to ram into it. It's a lot of responsibility and it's all on you.”

He completed a perfecting docking.

Wolf was on his fourth shuttle mission and performed three space walks. Before this mission he had already logged 158 days in space, including a long duration stay on the Russian MIR space station. He has now performed seven space walks.

He says stepping out into space is an incredible experience.

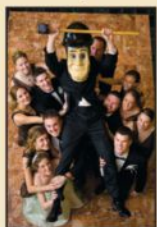
“The frustrating thing is, it can't be described,” Wolf says. “It literally seems dream-like moments after it's over. It's so outside the usual human experience; the stark brilliance of light and the deep darkness of shadows at night; the large space station you see in different orientations. It's almost like Alice in Wonderland. But you also have a very busy, detailed job to conduct.”

Purdue has 22 graduates who have been named astronauts and one more now in training.

“What I like to say is that coming from Purdue is almost like an unfair advantage,” Wolf says. “I just lucked out to graduate from a place that has this sort of legacy,” Polansky says. “Purdue is a world class university.”

P John Norberg

Bobby Pflum (T'07) and



Caroline Anderson (CE'07), Bowling Green, OH, married on January 24 in Indianapolis.



Ryan B. Church (T'07), Carmel, IN, married **Lauren Huskins** (LA'07) on September 19 in Eugene, OR.

Matthew A. Roberts (M'07) married **Abigail R. (Conner) Roberts** (A'08) on June 13 at the Federated Church of West Lafayette.

Brian T. Petraits (T'08) married **Laura R. (Knueven) Petraits** (NRS'07) on July 11 in Brownsburg, IN.

Amanda L. (Wilson) Raisor (CFS'08) married **Richard A. Raisor** on August 9 in Columbus, IN.

Patrick Ryan (ME'08) and **Valerie Watters** (CFS'08), Milwaukee, WI, married on January 18.

Sean R. Hoos (DP'09) married **Sarah E. (Roberts) Hoos** (LA'07) on July 11 in Fort Wayne, IN.

Emily Jeffries (CFS'09), Evansville, IN, began her new position of associate director of Purdue Telefund on August 31.

Andre Killion (LA'09) and **Kara Huff** (LA'08), Indianapolis, IN, married on June 27.

Gregory J. Ross (EE'09) and **Christine A. (Haines) Ross** (EE'09) were married on June 28 in Merrillville United Methodist Church.

Aaron A. Rozzie (T'09) married **Rachel (Em) Rozzi** on June 13 in Glenview, IL.

Brian Schoolcraft (ME'09) and **Amanda Grula** (VM'08), Crawfordsville, IN, were married on August 10.

Lisa M. (Edmondson) Webber (A'09), Lucerne, IN, married **John Webber** on June 27.

J. Harper Albritton (P'46), Jacksonville, FL, May 16, 2005.

Kenneth H. Burrell (ECE'37), LaCrosse, WI, June 6.

Jack Caine (P'37), South Pasadena, CA, June 2. He is survived by his wife, Ida.

Walter M. Clary (A'37), Nokomis, FL, July 2. He is survived by his wife, Maurine.

Louanna T. (Thompson) Kirkpatrick (CFS'37, MS EDU'59), Frankfort, IN, June 21.

Jean E. (Sanders) Pigman (S'37), Downers Grove, IL, Jan. 9.

Dorothy E. (Coan) Bergmann (CFS'38), Walnut Creek, CA, June 12.

Ray C. Fatout (ME'38), Indianapolis, IN, July 25.

MEMORIAMs

1930

William F. Strong Jr. (ChE'33), Albuquerque, NM, Apr. 25.

Robert T. Hosmon (CE'34), Coconut Grove, FL, July 8.

Lorton W. Bryant (ME'35), Greenwood, IN, Aug. 28. He is survived by his wife, Myrtle.

GENERATIONS OF BOILERMAKERS

The Kaminski family celebrates their generations of Purdue Pride at a Purdue football game. Pictured from right to left are: **Larry Kaminski** (IM'66), **Chris Kaminski** (CFS'89), **Maria (Naclario) Kaminski** (LA'90), **Dana Kaminski** (EDU'95), **John Naclario** (CFS'86), **Cindy Kaminski** (EDU'95), and **Ava Naclario**. Future Boilermakers pictured from right to left are: **John Q**, **Christopher**, **Adam**, and **Morgan**.



Do you have a large family of loyal Purdue alumni? If so, please send your family photo to alumnus@purdue.edu for a chance at being highlighted in future issues of the *Purdue Alumnus*. Please identify everyone in the photo.

J. Leonard Taylor (ChE'38), Estes Park, CO, July 22. He is survived by his wife, **Beverlie**.

Harriett A. (Morris) Watson (CFS'38), Atlanta, GA, July 10.

Mary Jane Bauer (S'39), Bluffton, IN, July 9.

Donald R. Long (S'39), Sun Lakes, AZ, Sept. 1.

Melba E. (Tooker) Murphy (CFS'39), Odessa, TX, July 10.

1940

Marietta (Johnson) Applegate (CFS'40), Gaston, IN, July 17.

Robert D. Elbourn (ECE'40, MS ECE'49), Middle River, MD, Apr. 27.

Robert J. Schrader (ChE'40, MS E'40), Longview, TX, Mar. 14.

Bernard R. Stock (P'40), Seattle, WA, Aug. 6.

Joann R. (Geer) Insley (LA'41), Harwich, MA, July 24.

John H. Merhoff (A'41), Shelbyville, IN, Jan. 27.

Col. (Ret.) Jack P. Money (P'41), Spencer, IN, Sept. 5.

Mr. Hubert D. Pogue (ECE'41), Havertown, PA, Mar. 23. He is survived by his wife, Josephine.

Murray C. Triplett (ME'41), Hemet, CA, July 18.

Robert O. Wente (S'41), Reston, VA, Mar. 26.

Vernon B. Westburg (ECE'41, MS ECE'42), Bellevue, WA, Aug. 21.

Dora S. (Stong) Willey (CFS'41), Lafayette, IN, July 23. She is survived by her husband, **Norman** (LA'40, MS LA'46).

John W. Young (ME'41), Fort Wayne, IN, Apr. 30. He is survived by his wife, Eileen.

Arthur G. Bitzer (ME'42), Lombard, IL, Feb. 26. He is survived by his wife, **Roberta** (CFS'42).

Albert L. Courtney (ME'42), South Bend, IN, June 29. He is survived by his wife, Norma (Wolf) (S'43).

Edward L. Czenkusch (ChE'42, MS ChE'48), Bartlesville, OK, May 9.

Robert E. Head (ME'42, MS ME'47), Gilbert, AZ, July 1.

Jack H. Horn (ME'42), Pearland, TX, Aug. 8.

Dale M. Liggett (A'42), Paterson, NJ, June 19.

Robert D. Martin (S'42, MS LA'43), Tucson, AZ, Dec. 22, 2008. He is survived by his wife, Dorothy (Martin) (CFS'42).

Donald W. Meier (ChE'42), Fort Wayne, IN, Aug. 24. He is survived by his wife, Rebecca.

Richard Grant Parkison (ME'42), Seattle, WA, Apr. 8.

Dale C. Schumacher (ChE'42), Golden, CO, July 23.

George F. Topinka (ME'42), Burnsville, MN, Mar. 26.

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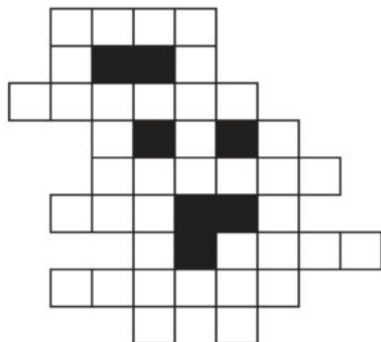
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FEAR KNIGHT

By: rj johnson

CONQUER THE WHIRLED

A J G
M E T N E D
T U L E X
♥ L U M A
O X A P L E
♥ A P L
♥ D O A S
D E M M O
X L A
S U E D I P
♥ D I X E N
A N E J



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Unscramble these twelve letter strings to form each into an ordinary word (ex. **HAGNEC** becomes **CHANGE**). Prepare to use only **ONE** word from any marked (♥) letter string as each unscrambles into more than one word (ex. ♥**RATHE** becomes **HATER** or **EARTH** or **HEART**). Fit each string's word either across or down to knot all twelve strings together.

class notes

Janet K. (Kendall) Tower (CFS'42), Brandon, FL, Aug. 19.

Ralph B. Barnes Sr. (ME'43), Indianapolis, IN, July 6.

Albert H. G. Chun (CE'43), Honolulu, HI, July 30.

Fred B. Gregg (ME'43), Tucson, AZ, June 24.

Joy L. (Wampler) Holmes (CFS'43), Vincennes, IN, Mar. 23.

Cayce B. Parrish Jr. (CE'43), Bethesda, MD, Mar. 13.

Hugo A. Stippler (ME'43), Ojai, CA, Aug. 27.

Robert L. Zollman (A'43), Medora, IN, Aug. 6.

Natie Allen Jr. (ME'44), Hixson, TN, Aug. 28.

Oscar A. Jeude (ME'44), Bradenton, FL, Aug. 1.

Joe A. Collings (ME'45, MS A'49), Fresno, CA, Aug. 14. He is survived by his wife, Priscilla (LA'48).

Glendine (Reed) Meadows (CFS'45), Southern Pines, NC, July 7.

George M. Rothrock (PhD S'45), Clover, SC, Jan. 31. He is survived by his wife, Betty.

James L. Shelton (ChE'45), Windsor, CA, Feb. 3.

Stuart L. Treon (AAE'45), Sunnyvale, CA, Jan. 12. He is survived by his wife, Marilyn.

Donald B. French (ME'46), Hilton Head Island, SC, June 1. He is survived by his wife, Mildred.

Donna L. (Harvey) Helms (S'46), Greensboro, NC, July 8.

Marjorie (Vaughan) Price (LA'46), Lafayette, IN, Aug. 13.

Lois R. (White) Shields (CFS'46), Carthage, IN, Apr. 10.

Joseph C. Touchstone (MS S'46), Rosemont, PA, July 26.

M. Jane (Switzer) Vaux (CFS'46), Fort Myers, FL, June 25. She is survived by her husband, **Hubert** (A'48).

George J. Zissis (S'46), Ann Arbor, MI, Jan. 8. He is survived by his wife, **Wanda** (S'49).

Warren G. Burres (CE'47), Dallas, TX, June 30. He is survived by his wife, **Carolyn** (Tucker) (CFS'47).

LeMoynes E. Farnsworth (AAE'47), Racine, WI, June 13. He is survived by his wife, Margaret.

Mark E. Fisher (ME'47), Carmel, IN, Sept. 3.

Marjorie Jean (Ephline) Grimes (CFS'47), Greenfield, IN, July 19.

David B. Lindsay Jr. (LA'47), Sarasota, FL, July 2.

Louis E. McAllister Jr. (BS'47, CE'48), Philadelphia, PA, Apr. 15. He is survived by his wife, Marian.

Wilson L. Orr (MS S'47), Garland, TX, Feb. 18.

Helen I. (Goodwill) Slater (S'47), Carmel, IN, May 21.

Col. James E. Trask (AAE'47), Williamsburg, VA, July 12.

Kenneth S. Warren (PhD S'47), Albuquerque, NM, Mar. 30. He is survived by his wife, **Helen** (CFS'39).

Walter G. Frantzreb (A'48), Westfield, IN, Sept. 3. He is survived by his wife, **Marjorie** (CFS'47).

Martin O. Gernand (ChE'48), Baton Rouge, LA, June 28. He is survived by his wife, Phyllis.

Victor H. Krummenacher (ECE'48), Coronado, CA, June 18.

Edwin B. Linquist Jr. (ME'48), Longwood, FL, Aug. 23.

William H. McKee (ME'48), West Covina, CA, July 13.

Jean D. (Burgess) Nold (CFS'48), Delmar, NY, July 5.

James N. Scott (AAE'48), Indianapolis, IN, Mar. 18.

M. William Slyby (ME'48), Fort Wayne, IN, Sept. 3. He is survived by his wife, Betty.

Roselyn M. (Montgomery) Baker (S'48), Carmel, IN, July 28. She is survived by her husband, **Robert** (S'48).

G. Burt Ford (E'49), Notre Dame, IN, Nov. 19, 2008.

Howard G. Haffenberg (ME'49), Winnetka, IL, June 28.

Charles L. Huppert (ChE'49), Greendale, WI, July 4.

Robert H. Means (ECE'49), Louisville, KY, May 29.

Robert L. Mooney (A'49), Seminole, FL, July 24.

Philip C. Mosher (ME'49), Rockford, IL, Aug. 27. He is survived by his wife, Ladora.

Darrel E. Peugh (ME'49), Kokomo, IN, Dec. 6, 2008. He is survived by his wife, Laura (MS S'50).

Nathan Primack (S'49, MS S'50), San Clemente, CA, Sept. 4. He is survived by his wife, Eleanor.

Omar K. Salmassy (ME'49, MS ME'51), Pacific Palisades, CA, June 30.

J. David Schreiner (P'49), Bedford, IN, Mar. 23.

Fred J. Sharn (ME'49), Cincinnati, OH, July 20. He is survived by his wife, Audrey.

David R. Sherrier (ECE'49), Fishers, IN, July 22. He is survived by his wife, Patricia.

Olindo Spadetti (LA'49), Columbia, SC, Jan. 14.

Mary A. (Rogers) Wyatt (CFS'49), Danville, IL, July 15.

1950

D. Gene Clark (AAE'50), Chatsworth, CA, July 2.

Howard R. Corry (CE'50), Pearland, TX, Mar. 8.

John F. Durniak (LA'50), Fair Oaks, PA, May 28.

Rollin E. Farrand (CE'50), Mishawaka, IN, Aug. 2. He is survived by his wife, **Kathleen**.

Harold G. Frick (CE'50), Fort Mill, SC, Sept. 5. He is survived by his wife, Evelyn.

John J. Knox (P'50), Green Valley, AZ, Aug. 22.

Jack C. Martin (LA'50), West Lafayette, IN, July 12. He is survived by his wife, Fern (LA'50).

Robert L. Meyer (ECE'50), Madison, TN, Sept. 7.

Paul J. Otterbach (A'50), Mobile, AL, Mar. 9.

Henry R. Simmons Sr. (T'50), Chicago, IL, July 19.

William J. Graff Jr. (PhD E'51), Conway, AR, Aug. 19. He is survived by his wife, Ruby.

Mahlon B. Modesitt (ECE'51), North Fort Myers, FL, Sept. 3.

Lon W. Pinaire (ME'51), Newburgh, IN, June 24.

Donald W. Pontius (MSE'51), Colfax, NC, July 19.

Robert F. Shew (A'51), Noblesville, IN, Mar. 15.

Frank N. Strohm (S'51), Indianapolis, IN, Mar. 22.

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The Summit of Success

ALUMNI PROFILE



Carolyn Gatesy (S '72) likes a challenge. A lifelong businesswoman and adventurer, she has hiked the Inca Trail to Machu Picchu and dog sledded through Lapland but it was the four years she spent at Purdue that launched her toward her dreams.

A competitive swimmer from an early age in her native Connecticut, Gatesy knew she wanted to attend a school where she could swim and hone her abilities in math and science. It wasn't until her mother handed her a plane ticket to Purdue that her future began to solidify.

"I landed at the Purdue airport and I had no idea where to go," she remembers. "But people were so nice. It was that Midwest hospitality. It's also an impressive school. People still compliment me for graduating."

Gatesy co-captained the women's swim club team in 1971–72, before qualifying for the U.S. Swimming Nationals. She recalls her time at Purdue as a bridge to a life of purpose and play.

"Purdue really set me off in a lot of directions," she says. "I graduated in math with computer science at a time when they weren't hiring women. I learned there are a lot of different things you can use in your life to get where you want to go."

An entrepreneurial spirit

Gatesy took a job as a computer programmer in Connecticut, where people knew her as an athlete. Through various jobs in information systems, she watched the computer revolution begin to change the world and decided to strike out on her own.

She started a new business venture that sold, installed, and programmed computers for businesses and taught employees how to use the new technology. Her next venture, an image processing company she started with two partners, ultimately went public.

Gatesy has been in her current role as owner and president of Main

Street Office Center, an executive office business center that allows companies to rent furnished space and equipment, for 20 years.

"It's designed for people who are solidly in business but don't want the hassle of hiring secretaries or buying phone systems and office equipment," Gatesy said. "We have everything on site for them."

Work hard, play hard

Gatesy says adventures off the beaten path are a must for helping her maintain her focus.

"I work hard and I play hard," she says. "I've just always gone different places. I don't have time to repeat yet."

An avid hiker, Gatesy has climbed to the base camp of Mt. Everest, elevation 17,600 feet, Kilimanjaro, elevation 19,400 feet, and numerous peaks in the United States. She holds a world record for being part of the oldest combined age married couple to summit Vinson Masiff, the highest peak in Antarctica.

Adventures like that one, where she and her ex-partner were stuck at the peak for nine days due to inclement weather, remind Gatesy that nothing in life is guaranteed. Not success. Not even your next breath.

"Bad things can always happen but I think it's because I'm out there," she says. "You can always be in the wrong place at the wrong time but you don't want to miss the adventure because of that."

In recent years, Gatesy has become more involved with her alma mater. She's also eyeing a few more mountains.

"There's a phrase called the Seven Sisters," she says. "They are the highest peaks on all seven continents. I'll probably never summit Everest because I have teenagers and it's too dangerous, but I would like to do the other six. I've done two of them, so I've got four left."

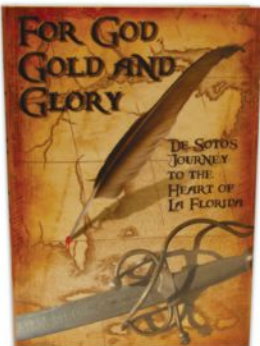
P Tanya Brown

PETER BILLARD

PURDUE INK

Each issue, the *Purdue Alumnus* features a list of books written by Purdue alumni, as well as books printed by the Purdue University Press. Purdue Alumni members receive a 20 percent discount on University Press purchases.

PURDUE ALUMNI BOOKS

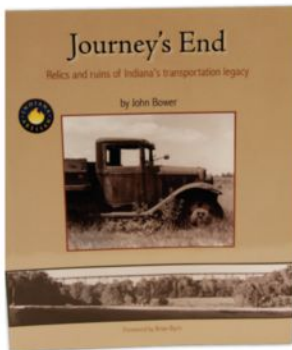


For God Gold and Glory: De Soto's Journey to the Heart of La Florida

Edward H. Haines (A'53)
Pineapple Press, Inc.
Sarasota, Florida

For God Gold and Glory follows Hernando de Soto as he leads an army of six hundred men on a desperate journey of almost 4,000 miles and the difficulties they face.

De Soto's private secretary kept a daily journey of the ordeal which Haines uses as the point of view in the book. Haines spent five years researching this book and has visited every major site on the de Soto route.

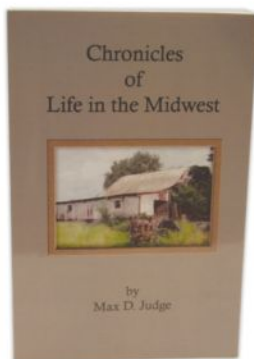


Journey's End: Relics and ruins of Indiana's transportation legacy

John Bower (T'71)
Studio Indiana

Photographer John Bower discovered an extensive culturally influential transportation heritage in Indiana. *Journey's End* showcases forlorn and rusting steam locomotives, diesel engines,

automobiles, trucks, interurban, and tow boats. The book is filled with moving portraits of once gleaming, but now rusted, vehicles abandoned along fence rows, lonely depots adjacent to trackless railroad grades, and defunct service stations whose retired pumps offer gas at 31¢ a gallon.

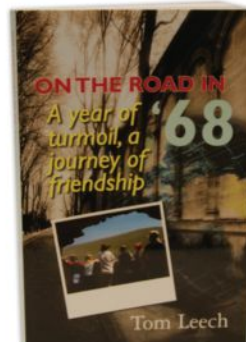


Chronicles of Life in the Midwest

Max D. Judge (A'54, PhD A'62)
Salt Marsh Cottage Books
Bluffton, South Carolina

Chronicles of Life in the Midwest characterizes life as it existed on a small livestock farm in Indiana during and after the decade of the 1940s. A prevailing work ethic, animal husbandry, cooperation of neighbors, religious practice,

youth activities, and many other themes are developed in a strong rural family in a time of war. The book is filled with commentaries, short stories, essays, poems, and prose that expand and interpret the diary entries of the author during his pre-teen and teenage years.



On the Road in '68: A year of turmoil, a journey of friendship

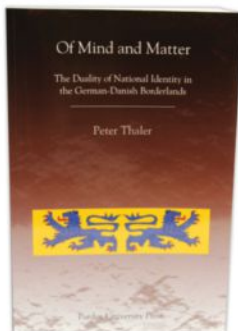
Tom Leech (AAE'59)
Presentations Press

The year was 1968 and Tom Leech and his pal Jim Butler head off for a few months in Europe. Their journeys were marked with usual traveler activities and scenes, but most notably by the friendships and

hospitality of people they met along the way. Also, during that year, turmoil stuck different cities they visited. Some of the instances include the Paris riots on the Left Bank between students, workers, and police; a tourist visit to Saigon following the Tet Offensive; and visiting Japan while being disturbed by the news of the assassination of Robert Kennedy.

PURDUE UNIVERSITY
PRESS BOOKS*Of Mind and Matter: The Duality of National Identity in the German-Danish Borderlands*

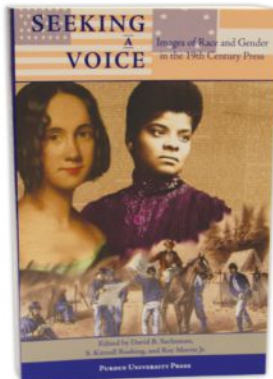
Peter Thaler



Of Mind and Matter analyzes identity formation in the multicultural border region of Sleswig. It highlights the changeability of national sentiments and explores what has motivated local inhabitants to define themselves as Germans or Danes. The analysis focuses especially on the respective national minorities, among whom the transitional and flexible aspects of Sleswig identity surfaces most clearly.

Seeking a Voice: Images of Race and Gender in the 19th Century Press

David B. Sachsman, S. Kittrell Rushing, and Roy Morris Jr., EDS



This volume chronicles the media's role in reshaping American life during the tumultuous 19th century by focusing specifically on the presentation of race and gender in the newspapers and magazines of the time. The work is divided into four parts: "Race Reporting" details the various ways American's racial minorities

were portrayed, "The Fires of Discontent" looks at the moral and religious opposition to slavery, "The Cult of True Womanhood" examines the disparate ways in which American women were portrayed, and "Transcending the Boundaries" traces the lives of pioneering women journalists who sought to alter and expand their genders' participation in American life.



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I. Joan (Jordan) Adams (CFS'52), Carnegie, PA, Mar. 18.

Joseph G. Benham (A'52), New Whiteland, IN, July 31.

Thomas B. Borden (A'52, MS A'57), Fort Collins, CO, June 28. He is survived by his wife, Rogene (MS EDU'51).

John G. Durham (S'52), Chesterfield, MO, Aug. 20. He is survived by his wife, Nancy.

Virginia M. (Mann) Glover (CFS'52), Frankfort, IN, Sept. 5.

Paul J. Raver (A'52, MS LA'61), Kokomo, IN, Aug. 21. He is survived by his wife, Shirley.

Alfred E. Smith (S'52), Hobart, IN, Mar. 27.

Jack B. Spencer (T'52), Surprise, AZ, Aug. 24.

Robert B. Ball (ME'53), South Bend, IN, May 28.

James H. Boggs (PhD E'53), Indianapolis, IN, Aug. 29.

Barbara A. (Scott) Davis (CFS'53), Frankfort, IN, July 23. She is survived by her husband, James (A'53).

Harry W. Haser Jr. (CE'53), Wilmette, IL, 2009.

Maurice L. Horton (A'53, MS A'59), Brownsburg, IN, Sept. 3.

Buddy J. Leslie (A'53), Montmorenci, IN, Mar. 9.

Gerald L. Runyon (A'53, MS EDU'58), Clay City, IN, Aug. 9. He is survived by his wife, Hermoin.

David E. Schaefer (ME'53), Miamisburg, OH, Apr. 12. He is survived by his wife, Marion.

David G. Tibma (ME'53), Santa Barbara, CA, Aug. 16.

Daniel C. Benner (A'54, MS A'59), Fort Myers, FL, June 25.

Elmer W. Berrey (S'54), Brownsburg, IN, Aug. 1.

Marvin W. Stucky (A'54), Osprey, FL, July 18. He is survived by his wife, Patricia (CFS'57).

James R. Bosler (A'55), West Lafayette, IN, Aug. 23. He is survived by his wife, Shirley.

C. Zelman Kamien (AAE'55, MS E'56, PhD ME'60), Chelmsford, MA, July 27.

Ernest D. McDaniel (PhD LA'55), West Lafayette, IN, July 15. He is survived by his wife, Thelma (MS EDU'75).

Nyles E. Myers (A'55), Storm Lake, IA, Feb. 3.

Thomas E. Tobin (LA'55), Indianapolis, IN, Mar. 2.

Charles A. Burkholder Jr. (A'56), Phoenix, AZ, Apr. 18. He is survived by his wife, Phyllis.

Vicente A. C. David (MS A'56), Fairfield, CA, May 25.

Robert B. Harwood (ME'56), South Bend, IN, May 13. He is survived by his wife, Vivian.

Robert C. Barbour (LA'57), Taunton, MA, July 13.

Robert K. Booher (ECE'57), Waverly, TN, Oct. 4, 2008.

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Lee (Poland) McKay (MS CFS'57), Los Gatos, CA, July 10. She is survived by her husband, David.

William Hardin Miner (LA'57), Chesterfield, MO, July 14.

Richard E. Baumgardner (A'58), Cleveland, OH, Aug. 8.

Raymond L. Broemmelsiek (ME'58, HDR E'87), Carmel, IN, May 9. He is survived by his wife, Molly.

Robert Louis Buikema (CFS'58), Lafayette, IN, Aug. 10.

Earl J. Christensen (ECE'58), Greenville, MI, June 5.

Edward E. Kerkhoff (ME'58), Indianapolis, IN, Aug. 25.

Raymond A. Kirschbaum (ME'58), Riverdale, IA, July 16.

Philip M. Lee (S'58), Campbellsville, KY, Feb. 15.

John W. McCammon (ECE'58), Redwood City, CA, May 10.

Walter V. Percy (A'58), Las Vegas, NV, June 1.

Lewis H. Piepenbrink (P'58), White Pigeon, MI, Nov. 27, 2008.

William V. Davis (A'59), Fort Branch, IN, July 11.

James A. Lasley (ECE'59), Richmond, IN Aug. 1.

Robert L. Long (MS NE'59, PhD NE'62), Albuquerque, NM, July 9.

1960

John M. Christie (A'60), Scottsburg, IN, July 22. He is survived by his wife, Deborah.

Thomas J. Eastburn (A'60), Sheldon, IL, Aug. 23.

Kenneth R. Luhrsén (A'60), Vevay, IN, Sept. 29, 2008.

Walter J. Marchlik (P'60), Hammond, IN, Mar. 1.

George L. Roeder (S'60, MS S'63), Nashua, NH, Apr. 15.

Paul G. Arapakos (MS S'61), Kingsport, TN, Mar. 7.

Wilma V. (Burnau) Harris (MS LA'61), Forest, IN, July 16.

E. Lynn Plaster (LA'61), Cos Cob, CT, Aug. 15.

Charles C. Rauschenbach (M'61), Melbourne, FL, Oct. 29, 2008.

Donald L. Sisloff (S'61), New Albany, IN, Aug. 17. He is survived by his wife, Patricia.

Henry L. Stevens Jr. (MS M'61), Portland, OR, Apr. 20.

Harold V. Walton (PhD A'61), Kingwood, TX, May 1.

Marian H. (Hayes) Jernigan (CFS'62, MS CFS'64, PhD CFS'68), Shreveport, LA, July 13. She is survived by her husband, G. William.

Robert S. McCann (AAS T'62), Indianapolis, IN, Sept. 8.

William J. Peters (A'62), Kennett Square, PA, Aug. 25.

John E. Polk Sr. (T'62), Abilene, TX, July 7.

Maurice A. Rice Jr. (MS M'62), Issaquah, WA, Feb. 9.

David W. Richman (ME'62), Huntington Beach, CA, Aug. 10. He is survived by his wife, Jean.

Michael H. Taylor (S'62), Austin, TX, Jan. 25.

James M. Carter (MS V'63, DVM'65), West Lafayette, IN, July 6. He is survived by his wife, Barbara.

Judith (Sabo) Becker (S'64, MS CFS'77), Lafayette, IN, July 30.

Robert G. Hager (MS M'64), Carlisle, PA, Aug. 28.

Erich K. Kopitzke (M'64), North Vernon, IN, June 23.

Thomas A. Pine (M'64), Exeter, NH, July 22. He is survived by his wife, Patricia.

S. Joan (Howard) Trudeau (LA'64), Jefferson City, TN, Aug. 28. She is survived by her husband, Ronald (MS A'65).

Victor L. Dupuis (PhD EDU'65), State College, PA, Aug. 17. He is survived by his wife, **Mary** (MA EDU'63).

Eileen (Settle) Rathke (MS A'65, PhD A'71), East Lansing, MI, May 1. She is survived by her husband, Michael (PhD S'71).

J. Michael Terhune (CE'65), Fairfax, VA, Mar. 3.

James D. Berg (T'66, MS T'67), San Antonio, TX, Aug. 23.

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Robert A. Bonner (ME'66),
Dayton, OH, May 26.

Thomas R. Branning (ME'66),
Evanston, IL, Apr. 26.

Gary S. Mamer (M'66), Fort
Wayne, IN, Apr. 14.

J. David Simpson (MS S'66),
Indianapolis, IN, Mar. 24.

Claude F. White (LA'66),
Indianapolis, IN, July 28.

Owen D. Sibert (MS
EDU'67), Indianapolis, IN,
Aug. 27.

John D. Williams (A'67), Sun
City Center, FL, Aug. 15. He is
survived by his wife, Janet.

William C. Lambdin
(M'68), Nashville, TN,
June 19.

Elizabeth A. Meyer (LA'68),
Carmel, IN, Feb. 23.

Petrine (Rypdal) Ramstad
(A'68, LA'85), Sun Prairie, WI,
July 14.

Jeffry J. Steele (A'68), Millis,
MA, July 5. He is survived
by his wife, **Susan (Hobbs)**
(DVM'70).

Maxine L. (Grant)
Brechbill (AAS'69), Auburn,
IN, Dec. 18, 2008. She is
survived by her husband,
Philip (A'69).

Susan (Rosentrader)
Atkinson (CFS'69, MS
CFS'72), Churubusco, IN, July
10. She is survived by her
husband, **Larry** (A'70).

1970

Beverly A. (Geyer) Phillips
(AAS'70), Greensburg, IN,
Aug. 28.

Edward J. Sheehy (ECE'70),
MS S'77), Norris, TN, Mar. 19.

Richard F. Schaaf (AAS'64,
BS'71), Somerset, IN, Apr. 14.

Robert E. Kress (LA'72),
Wexford, PA, Aug. 4.

Donald A. Rudolph (BS'72),
Carmel, IN, July 16. He is sur-
vived by his wife, Sara Jane.

Nancy A. (Martin) Williams
(BA'72), Greenfield, IN,
Aug. 29.

John J. Graf (CE'73), Guilford,
IN, Sept. 20, 2008.

Ronald A. Krol (BS'73),
Westerville, OH, Aug. 11. He is
survived by his wife, Linda.

Faye M. (Bizanes) Sellis
(BA'73), Melbourne, FL,
Mar. 28.

Alma D. (Smith) Hubele (MS
EDU'74), West Lafayette, IN,
Aug. 12. She is survived by
her husband, Raymon.

James H. Irwin (BS'74),
Westfield, IN, June 3.

James R. McElheny (A'74),
Port Salerno, FL, June 29.

Ronald Rodeman (PhD
CE'74), Albuquerque, NM,
Apr. 18.

Arlene E. (Anderson) Von
Horn Anderson (EDS'74),
Racine, WI, Mar. 4.

David R. Jonas (AAS'76), La
Porte, IN, May 25.

Linda R. Galbreath (CFS'77),
Indianapolis, IN, Aug. 3.

Joseph M. Salkeld (T'77),
Argyle, TX, Feb. 17.

Keith R. Fogerty (LA'78),
Irvington, NY, Aug. 14.

Jay Korvin Martens (MS
ECE'78), Bloomington, MN,
Feb. 2.

Christine A. McShane
(CFS'78), Indianapolis, IN,
July 23.

John Frederick Rogler
(LA'78), West Lafayette, IN,
Aug. 28.

Deborah S. (Nielson)
Green (CFS'79), West
Lafayette, IN, Aug. 20. She
is survived by her husband,
Kevin (M'82).

Thomas R. Salzer (BA'79),
Fort Wayne, IN, Feb. 11.

Mary Kay (Gruenberg) Stan-
ton (MS EDU'79, EDS'79),
Hebron, IN, Feb. 14.

1980

Ronald N. Warner (DP'81),
Skillman, NJ, July 21. He is
survived by his wife, Connie
(EDU'81).

Kenneth Paul Hines (T'82),
Kalamazoo, MI, July 24.

William Jay Piper (A'82),
Indianapolis, IN, June 30.

Christine G. Scholey (LA
LA'82), Coos Bay, OR, Feb. 13.

Garry Gene Thornton
(ChE'82), Rochester, NY, Aug.
14. He is survived by his
wife, Karen.

John Warren Fitzpatrick
(LA'84), Weyauwega, WI,
Dec. 8, 2008.

Wayne A. Turner (MS M'84),
Hammond, IN, May 1.

Lory S. Girardot (BS'85),
Noblesville, IN, Sept. 7.

Gregory Lee Mullins (PhD
A'85), Las Cruces, NM,
July, 18.

William H. Hassenplug
(T'87), West Lafayette, IN,
July 17.

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Brian J. Werne (ME'87),
Hollis, NH, Mar. 12. He is
survived by his wife,
Kirsten (S'86).

Patricia A. (McCrisaken)
Petrila (BA'88), New Carlisle,
IN, July 18.

Craig A. Powell (AAE'88),
Zionsville, IN, Aug. 23.

Jeffrey J. Quasney (S'88), Lisle,
IL, Aug. 23. He is survived
by his wife, Susan (Dexter)
(CE'90).

1990

Hui-Chuan J. Cheng (PhD
EDU'90), Newark, NJ, May
19. She is survived by her
husband, Dao-Chuan D. Hung
(PhD ECE'88).

Cecile V. Hutcherson
(NRS'90), Danville, IL,
June 22.

Eric S. Fuller (A'91),
Churubusco, IN, June 24.
Amy Lynne (Byfield) Ellars
(BS'93), Indianapolis, IN,
July 19.

Maurice L. Heath (MS
EDU'93), West Lafayette, IN,
July 31.

John R. Foltz (A'94, LA'94),
Shelbyville, IN, July 12.

George S. Branch (MS
EDU'98), LaPorte, IN, July
10. He is survived by his wife,
Brenda (M'82).

2000

Ruth Marie Kite (EDU'02),
Indianapolis, IN, Aug. 5.

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Engineering Mall on an autumn day
Photo by Kyle Kohlhagen (A'05, MS A'08)

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Olympic Athlete

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