

# U.S. Pork Center of Excellence

*Communities of National Cooperation*



# 2006 - 2007

**Annual Report**




# vision

The vision of the U.S. Pork Center of Excellence is to advance:

1. U.S. Pork Production as the world-class standard.
2. A new paradigm for how research is conducted and information delivered.
3. Society's understanding and valuing of U.S. pork producers' contributions to the economy, environment, community, and to consumer health and well-being.
4. A thriving U.S. Pork Production Industry.

# mission

The mission of the U.S. Pork Center of Excellence is to add value to the pork industry by facilitating research and learning for U.S. pork producers through national collaboration. The programs of the U.S. Pork Center of Excellence are three fold:

1. A Research Center of Excellence will evolve around coordination of research on focused issues.
  2. A Teaching Center of Excellence will support Regional Swine Schools that will provide intensive swine production education.
  3. An Extension Center of Excellence will focus on the Pork Information Gateway, a virtual center of information development, warehousing, and delivery involving the entire pork extension network nationwide.
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1202 NSRIC, Iowa State University, Ames, Iowa 50011 515.294.8891

# USPCE Staff

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*Dr. David Meisinger*

Executive Director  
drdave@iastate.edu

*Barbara Kalsem*

Administrative Assistant  
bjkalsem@iastate.edu

*Annette Renaud*

Grants Coordinator  
arenaud@iastate.edu

*Claire Masker*

Communications Specialist  
cmasker@iastate.edu

*Sarah Beaman*

Intern  
sbbeaman@iastate.edu

I am fond of pigs. Dogs look up to us.  
Cats look down on us. Pigs treat us as equals.

- Winston Churchill



# letter from the director

The US Pork Center of Excellence FY 2006-2007 annual report is a synopsis of the efforts and activities completed by the Center this year. During this second full year of operation for the US Pork Center of Excellence, we have experienced a lot of successes and have seen an evolution of the Center.

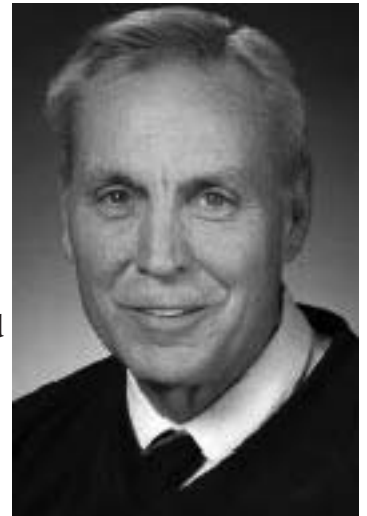
When the Center concept was being proposed to government, academia and industry several years ago, we foresaw a need to bring about collaboration in the public and private sectors for the benefit of the pork industry and specifically for the benefit of pork producers. We saw a dramatic change in the focus of government and university research and extension. Not too many years ago, universities prided themselves on being “all things to all people.” This has changed tremendously. Universities and government programs have shifted to allocating scarce resources of time, money and people to specific targeted efforts which may or may not include swine, pork or any of the associated disciplines. This has resulted in pork producers in most states losing out on opportunities to have their research and extension needs met. At the same time, we saw a dwindling of swine science courses taught at universities.

The idea of a US Pork Center was to bring all the interested parties together from throughout government, industry and academia and to bring all the resources to bear from wherever the source for the benefit of all producers nationwide. Gone are the days of the “not invented here” concerns. Indeed, nowadays, the concern is to get the information from wherever just so it comes in a timely manner as the need arises.

Given this environment, the US Pork Center of Excellence was established in July, 2005 to meet this need. The response has been overwhelming. USDA’s Agricultural Research Service and Cooperative State Research Education and Extension Service along with the National Pork Board were the first charter partners to establish the Center. Soon thereafter, 25 land grant universities established their partnership with the Center as well as 15 state pork producer organizations. All of these partners supported the mission and objectives of this new entity.

During this past year, only the second year of operation, several major successes were experienced. This report highlights those successes. From the Pork Information Gateway, to the award of the challenge grant, and work on the Sow Productive Lifetime Management Guide and the Swine Nutrition Guide, the Center continues to show its need and usefulness within the pork industry.

When the US Pork Center of Excellence was established, there was no time to crawl or to learn to walk. We had to “hit the ground running” and run we did. The many successes for such a fledgling outfit are fantastic. The challenges will be to keep all these programs growing. I am confident in our future successes due to our small but very qualified and talented staff. I look forward to a long and bright future for the USPCE.



an active year...

## New Projects, Activities, and people mean that this year was a busy one for the USPCE Staff.

What a busy year it has been at the US Pork Center of Excellence (USPCE). The first year of the Pork Information Gateway (PIG) could not be deemed anything less than success as the number of registered premium users and usage of the site continues to grow. USPCE was awarded a grant for the development and pilot program for the U.S. Swine Schools. And in April, the USPCE along with the National Pork Board jointly sponsored the *Air Quality and Odor Research Meeting*.

The buzz around the Center continues to grow as more individuals learn about the vision and mission and look to the Center to help them with different projects. Planning for the 13th Annual ADSA Discover Conference on Sow Productive Lifetime began this year. This project is done through major funding from the National Pork Board and will be the platform for which the Sow Productive Lifetime Management Guide that the Center (with funding from the National Pork Board) will be developing. The development of the national Swine Nutrition Guide also began this year and the Center helped to fund the Sow Housing Forum that was held before the World Pork Expo.

By all accounts, it has been an extremely busy year for the Center staff and we have been fortunate to have added to our staff. Barb Kalsem, our administrative assistant, continues to be invaluable to projects that the Center is involved in (she keeps us organized). And we were fortunate enough to hire a summer intern Sarah Beaman. Annette Renaud was hired in June as the grants coordinator.

Here's to hoping that this next year continues to be successful as this past year was for the Center!

*Claire Masker, Communications Specialist*

### sow housing forum

The USPCE, along with Pork Checkoff, Chore-Time, Hubbard Feeds, and the National Hog Farmer sponsored the Sow Housing Forum on June 6, 2007, what was right before the World Pork Expo.

The objective of the forum was "To Provide Pork Producers with information on housing sows in gestation." The forum addressed the diverse management aspects of individual and group housing of sows. And by all accounts the forum was a success. With over 267 attendees, it was standing room only.

Speakers discussed different housing options for the gestating sow and their effects on nutrition, labor, profitability, and the sow productive lifetime.



# swine nutrition guide

This year the U.S. Pork Center of Excellence, along with Swine Extension specialists and professors from universities began work on the swine nutrition guide. This guide became a Center project because of its mission to facilitate research and learning for the U.S. Pork Producer through national collaboration. The Guide's Chairperson, Duane Reese from the University of Nebraska-Lincoln, approached the Center to become involved in the project.

Several universities publish applied swine feeding recommendations for their state pork industry and producer cliental to use in making sound nutritional decisions. Usually the swine faculty at a given institution relies on several resources, including the NRC's Nutrient Requirements of Swine, research results from field days reports and their experience to develop the recommendations that are included in these feeding guidelines. Considering there are fewer swine faculty at many institutions today and that the US Pork Center of Excellence (USPCE) was created to coordinate national extension, teaching and research efforts, it made sense to embark on an effort to prepare a National Swine Nutrition Guide.

The new guide will be constructed using many of the same basic philosophies that have been utilized in the state-based swine nutrition guides. One difference is in how it's developed. The USPCE has formed a steering committee, synonymous to the NRC's Subcommittee on Swine Nutrition, to oversee the Guide's development. Steering committee members are Mark Whitney, University of Minnesota; Marcia Shannon, University of Missouri; Ken Stalder, Iowa State University; Brian Richert, Purdue University; Eric VanHeugten, North Carolina State University; Hans Stein, University of Illinois at Urbana-Champaign; Joel DeRouchey, Kansas State University; Garland Dahlke, Iowa State University; Scott Carter, Oklahoma State University; and Duane Reese, University of Nebraska (chair).

Computer software will also be developed to allow direct application of the Guide's contents to practical feeding situations. Additionally, the guide will serve as the backbone for the Swine Nutrition Domain on the Pork Information Gateway, once it is completed. Brian Richert, Purdue University, serves as domain editor of the Swine Nutrition Domain.

## grant coordinator hired



**Annette Renaud**

This past June, the U.S. Pork Center of Excellence hired Annette Renaud as the Grants Coordinator. This position is partially supported and shared by the National Pork Board. Annette will be dividing her time between the two organizations.

The intent is for Annette to build a pork industry grants development program and to prepare the grant proposals for submission to the federal government, to foundations, or to non-government organizations.

Prior to joining the USPCE Annette was the Director of the Ankeny Economic Development Corporation for 2 ½ years. Additionally, she has 11 ½ years of economic development experience for other areas in Iowa including Iowa Falls and Franklin County. Throughout her time in economic development, Annette assisted several businesses with expansions and new locations, creating jobs and tax base in rural Iowa.

## USPCE awarded grant

It was an exciting day when the USPCE learned that it had been awarded a \$460,000 three-year grant for the development of Swine Schools. The grant was awarded to the USPCE by the USDA/Cooperative State Research, Education, and Extension Service (CSREES). With the match from ISU, NCSU, and NCAT, this \$920K project will begin in October of 2007.

A lot of time and effort was put into the development of this grant. The Swine Schools project will involve developing curricula in several different areas of study in pork production, pilot testing and evaluating the results. The USPCE submitted this proposal in response to the declining number of swine science programs being offered by universities around the country. The funding for this project will begin on October 1, 2007 and a program manager will be hired for this position.

This project has been in the works for awhile and is another example of how the U.S. Pork Center of Excellence is working to realize its mission and vision that were created when the organization first began.

**\$460,000 Grant Awarded to USPCE this year!**



## ADSA conference



The U.S. Pork Center of Excellence, with major funding from the National Pork Board have teamed up with the Discover Conferences sponsored by the American Dairy Science Association (ADSA) to develop the program for the "Sow Productive Lifetime" conference. The planning for the conference began this last year and will be held on September 9-12, 2007 in Nashville, Indiana.

The conference will be the springboard for the Sow Productive Lifetime Management Guide that the USPCE, with funding from the National Pork Board, will be putting together. Again, it was USPCE's mission and vision that allows the Center to spearhead this project.



The conference will aid in the development of the Sow Productive Lifetime Management Guide

The planning committee for this project includes: David J. Meisinger, U.S. Pork Center of Excellence; Mark Boggess, National Pork Board; Ken Stalder, Iowa State University; Stanley E. Curtis, Retired, University of Illinois; Anna Kerr Johnson, Iowa State University; Locke Karriker, Iowa State University; Donald C. Lay, Jr., USDA-ARS; Mark A. Mirando, USDA-CSREES-NRI; Don Orr, JBS United, Inc.; D. Steven Pollmann, Murphy Brown LLC; Larry Miller, DISCOVER Opportunities; Molly Kelley, DISCOVER Conference Series



# USPCE Board of Directors

**Mr. Rich Degner**

Executive Director, Iowa Pork Producers Association  
*Representing State Pork Associations*

**Dr. Beverly R. Durgan**

Dean and Director,  
University of Minnesota Extension  
*Representing State Extension Directors*

**Charlotte Kirk-Baer, ex officio**

USDA Cooperative State Research  
Education and Extension Service  
*Representing USDA/CSREES*

**Dr. Jerry Hatfield, ex officio**

USDA Agricultural Research Service  
*Representing USDA/ARS*

**Dr. Paul Matzat**

Elanco Animal Health  
*Representing Allied Industry*

**Dr. David Meisinger**

Executive Director, U.S. Pork Center of Excellence  
*Representing USPCE*

**Mr. Leon Sheets**

Ionia Pigs, Inc.  
*Representing Pork Checkoff*

**Dr. Wendy Wintersteen**

Dean, College of Agriculture and Life Sciences and  
Director, ISU Agriculture Experiment Station  
*Representing Iowa State University*

**Mr. Neil Dierks**

CEO, National Pork Producers Council  
*Representing National Pork Producers Council*

**Dr. John Thomson**

Dean, College of Veterinary Medicine  
Iowa State University  
*Representing Colleges of Veterinary Medicine*

**Dr. Alan Grant**

Chair, Department of Animal Science  
Purdue University  
*Representing Departments of Animal Science*

**Mr. William Luckey**

Luckey Farms  
*Representing National Pork Producers Council*

**Mr. Dennis Michael**

Michael Farms  
*Representing Pork Checkoff*

**Mr. Steve Murphy**

CEO, National Pork Board  
*Representing Pork Checkoff*

**Mr. Mike Wehler**

Wehler Farms  
*Representing National Pork Producers Council*

**Dr. Robert Easter**

Dean, College of Agricultural,  
Consumer and Environmental Sciences  
University of Illinois at Urbana-Champaign  
*Representing Colleges of Agriculture*

## board of directors meet

The US Pork Center of Excellence Board of Directors met twice in the last fiscal year. They met on October 17, 2006 and April 11, 2007 both times at the National Pork Board offices in Des Moines. The purpose of the board meetings was to provide an update on USPCE activities and to have the USPCE Board of Directors provide future direction to the Center.

Many outcomes came from these board meetings, one being the idea to create a monthly USPCE newsletter that is electronically delivered to stakeholders of USPCE. It provides updates on USPCE activities as well as provides another avenue for stakeholders to present their information, such as meetings and brochures created. Also discussed at the meetings is the new funding model for the USPCE. More on this proposal can be read below.

## sustained funding proposal

The US Pork Center of Excellence received original seed money funding from USDA/CSREES, USDA/ARS, and the National Pork Board. This funding is for three years and to begin the development of programs in research, teaching and extension. The USPCE Board of directors named a subcommittee to develop a plan for sustained funding for the Center. Work is underway to achieve funding through Congress and the Farm Bill, but a shorter term, sustained funding approach is also needed for the Center. Administrative costs are to be covered by this sustained funding. Program costs in each area will be covered by grants or other sources. It is estimated that administrative costs are between \$400,000 and \$500,000 annually.

Giving by land grant universities has been according to a formula based upon marketings of hogs in each state. The new plan simplifies this by categorizing hog marketings in five segments. These are >15K (\$20K), 10-15K (\$15K), 5-10K (\$10K), 2.5-5K (\$5K), and <2.5K (\$2.5K). With an estimated 19 land grant institutions partnering with the Center, this would amount to \$130,000 annually. Giving by the National Pork Board and USDA agencies (ARS and CSREES) would be increased to \$75,000 annually. Giving by State Pork Associations would be proposed to be \$75,000 and contributions (both financial and in-kind) from the National Pork Producers Council would be set at \$25,000.

The USPCE is gaining momentum in the areas of teaching, extension, and research. The value to the pork industry has already been seen but will still need to be capitalized on in the coming years. It is important that sustained funding be established with partners throughout academia, industry, and government, to realize this partnership for the future.

## deans' policy council meet

The Deans' Policy Council met on October 13, 2006 in Kansas City, Missouri. The purpose of the Deans' Policy Council is to provide an opportunity for Dean interaction, while also providing updates on USPCE and CSREES programs and activities. It also provides a way to enhance communication with stakeholders from the USPCE.

A main action item from this meeting was to change the co-branded headers to also include the USPCE logo on them. This is modeled after the Kansas State University's co-branded site. The council also discussed who should be members of the council. The council suggested there should be two representatives from each institution with the deans from each institution determining who attends.

# Pork Information Gateway

It has been an exciting year since the launch of the Pork Information Gateway at the 2006 World Pork Expo. The number of registered users and daily visits continue to grow as the word about PIG continues to spread.

A marketing campaign, that included stops at numerous state trade shows, began on January 1, 2007. A drawing, for two prizes, was held that included everyone who registered between January 1, 2007 and March 15, 2007. The first place prize was a free trip to San Antonio donated by Elanco Animal Health and the second place prize was an Apple i-pod nano.

PIG Phase II projects were also being completed to improve PIG this year. They included faster speed, better search capabilities, and more browser support capabilities.

The Domain Editors met twice this year to work on content for PIG. A list of Domain Editors is below.



**PIG has seen a 172% increase in the number of registered users since January 1, 2007.**

## PIG Domain Editors

**Dr. Todd See**

*North Carolina State University*  
Lead Editor

**Dr. Tom Baas**

*Iowa State University*  
Breeding and Genetics

**Dr. Steve Moeller**

*The Ohio State University*  
Pork Quality

**Dr. Joel DeRouchey**

*Kansas State University*  
Production Management Systems

**Dr. Brian Richert**

*Purdue University*  
Swine Nutrition

**Dr. Steve Larsen**

*National Pork Board*  
Pork Safety

**Dr. John Murray**

*Minnesota State Colleges*  
Business Management

**Dr. Rob Knox**

*University of Illinois at U-C*  
Reproduction

**Dr. Jodi Sterle**

*Texas A&M University*  
Youth Projects

**Dr. Mike Swan**

*Washington State University*  
Human Resources

**Dr. Jay Harmon**

*Iowa State University*  
Facilities and Equipment

**Dr. Palmer Holden**

*Iowa State University*  
Statistics

**Dr. Morgan Morrow**

*North Carolina State University*  
Swine Health

**Dr. Alan Sutton**

*Purdue University*  
Environmental Management

**Dr. Liz Wagstrom**

*National Pork Board*  
Worker Health and Safety

**Dr. Ed Pajor**

*Purdue University*  
Animal Welfare and Behavior

**Dr. Ron Plain**

*University of Missouri*  
Marketing



# Pork Industry Handbook

Released in October 2006, The 2007 Pork Industry Handbook (PIH) is available as a two-volume, spiral-bound book or DVD.

As of July 2007, there have been sales of 116 PIH books, 177 PIH DVDs and 160 PIH combination packages. The largest percentage of sales has come from companies (36% of sales). The majority of the rest of the sales have come from University (25% of sales) and individual customers (24% of sales) .

PIH was sold in 41 states and the District of Columbia. It has also received international interest, with sales coming from Canada (7% of sales) and other countries (5% of sales). Indiana (21% of sales), Iowa (9% of sales) and California (7% of sales) make up the highest sales percentages in the U.S.

## PIG opportunities

The PIG Opportunities Portal will launch in September, 2007. PIG Opportunities will be another dimension of the PIG website and will include information about Internships, Community Colleges and Careers in the Pork Industry. This program is designed to encourage people to pursue a career in the pork industry.

The intent is for students to refer to the PIG website for information on internships and career paths in the Pork Industry. The internship portion will allow students to gain experience in the industry, which will spark an interest and will encourage he or she to stay in a swine related career.

Next, Community Colleges will be listed so that those individuals who want courses in swine education will have a comprehensive list of options. Lastly, Career Opportunities will be listed so that prospective industry members can see what options are available for their future. Overall, the Opportunities Portal will be helpful in encouraging potential industry members to gain experience, education, and understand opportunities in the swine industry.

## PIG co-branding

PIG Co-branding continues to be a success. It allows partners to have a website that is uniquely theirs. The addition of the US Pork Center of Excellence logo in the header of all co-branded sites allows those who use the co-branded sites to truly see the partnership that exists between the USPCE and its partners.

Currently there are nineteen partners that have chosen to co-brand a site. They are: National Pork Board, Purdue University, University of Nebraska-Lincoln, University of Missouri, Texas A & M University, University of Tennessee, Iowa State University, Kansas State University, Montana State University, Ohio Pork Producers, Washington State University, Virginia Tech, University of Illinois at Urbana-Champaign, North Carolina State University, Wisconsin Pork Producers, University of Missouri, Missouri Pork Producers, North Dakota State University, Michigan State University, and Fresno State University.



# teaching center of excellence

## providing intensive swine production education

### USPCE receives grant for swine schools

The US Pork Center of Excellence was successful in obtaining a Challenge grant for \$460K from USDA-CSREES for Regional Swine Schools. With the match from ISU, NCSU, and NCAT, this is a \$920K project which will begin in October of 2007. The funding for the project is for three years.

The effort during the next fiscal year will be to kickoff the Swine Schools project but also to develop a much larger workforce development effort of which Swine Schools will only be a portion.

The Swine Schools project will involve developing curricula in several different areas of study in pork production, pilot testing and evaluating the results. The USPCE submitted this proposal in response to the declining number of swine science programs being offered by universities around the country. The funding for this project will begin on October 1.



College students who wish to be involved in the Swine Schools project will have the opportunity to take an intensive swine science course followed by a summer internship at a production facility. The internship will allow participants to gain experiential learning with credits to be transferred back to their respective institution.

Components of Swine Schools will include distance learning, laboratory instruction, problem solving and critical thinking. The newest technologies in teaching and student-centered instruction also will be used.

## steering committee

### Academic Deans:

**Dr. Nancy Irlbeck**, *Colorado State University*  
**Dr. Don Boggs**, *Kansas State University*  
**Dr. Ken Esbenschade**, *North Carolina State University*

### Animal Science Department Heads:

**Dr. Maynard Hogberg**, *Iowa State University*  
**Dr. Alan Grant**, *Purdue University*  
**Dr. Ralph Noble**, *North Carolina A&T*  
**Dr. Dave Buchanan**, *North Dakota State University*

### Consultant:

**Mary Beck**, *Clemson University*

### Faculty:

**Dr. Jodi Sterle**, *Texas A&M University*  
**Dr. Tom Baas**, *Iowa State University*  
**Dr. Todd See**, *North Carolina State University*

### Producers:

**Jack Walsh**, *New Fashion Pork*  
**Mary Langhorst**, *Wakefield Pork*

### USPCE Staff:

**Dr. David Meisinger**, *Executive Director*



# research center of excellence

## coordination of collaborative research on focused areas

### air quality and odor research meeting

In April 2007, the National Pork Board and the US Pork Center of Excellence jointly sponsored an Air Quality and Odor Research Meeting. Persons invited to attend this meeting included individuals directly involved in research related to addressing air quality and odor control from swine operations; State Pork Association Executives; a representative of the National Pork Producers Council; members of the National Pork Board's Environment Committee and representatives of the US Pork Center of Excellence.



The meeting allowed those in attendance to come together to talk about the three main issues in Air Quality and Research: Particulate Matter, Gases, and Odors.

The group discussed what is known about each subject; suggested priorities for transferring known research and information about particulate matter, gas, and odors; and suggested research needs in the three areas. They also prioritized the list of research gaps and listed potential funding sources to fill research gaps. More about the meeting and what the next steps from this meeting are can be found on the USPCE website at [www.usporkcenter.org](http://www.usporkcenter.org).

The model of this meeting where researchers discuss what is known about the subject and how current knowledge can be transferred to the public and producers will serve as the model for future research center meetings that the USPCE will hold.

## quick facts

- Thirty-six (36) people attended this meeting including:
  - Twenty-one (21) individuals involved directly in swine related research efforts three of whom also serve as science advisors to the National Pork Board's Environment Committee,
  - Five (5) pork producer members of the National Pork Board's Environment Committee,
  - Four (4) State Pork Association Executives,
  - One (1) representative of the National Pork Producers Council,
  - Three (3) staff from the U.S. Pork Center of Excellence and
  - Two (2) staff from the National Pork Board's Science & Technology Department.
- USPCE will work on ways to help researchers with funding.
- USPCE is currently looking into other research priorities and will have meetings like the air quality one with the intent on creating the same list of outcomes.

## extension center

This next fiscal year will allow the Center to continue the implementation of Phase II for the Pork Information Gateway (PIG). Phase II projects include increasing the user's experience. This will be accomplished through increasing the speed and search functions of PIG as well as increasing the number of internet browsers supported by PIG.

We are also working on ways to provide impact data to our partners. Many of them have been asking for impact data and we feel that it is important to provide them with this information. The domain editors are also hard at work creating more fact-sheets and making sure that the content on the site is current and reflects the current research in their domain area.

This year will also see the launch of PIG Opportunities. We are very excited for this launch and believe that it will be beneficial to the pork industry as a whole.

## teaching center

This will be an exciting year for the US Pork Center of Excellence's Teaching center of Excellence. First, a project leader will be hired to help lead and direct the Swine Schools project, as well as the workforce development project which will also be started this year.

In October, the steering committee will meet and will formulate policy for the development of Swine Schools. This committee will include representatives from academia and from individual producers. Also, the first annual swine schools conference will be held in December and again there will be representatives from academia and industry present.

Curriculum teams will be organized, and writing and development of the Swine Schools curriculum will begin this fiscal year. Undoubtedly, it will be a busy year for the Teaching Center of Excellence!

## research center

This year will see many activities in the Research Center of Excellence. The Air Quality Priorities will be published and available to the public. The USPCE will also pursue working on the development of other research priorities in the swine industry.

The Sow Productive Lifetime Conference will be held in September. Major funding for the Sow Productive Lifetime Conference was provided by the National Pork Board. This conference will serve as the spring board for the Sow Productive Lifetime Management Guide. This guide will be a thesis project for a graduate student in the Agricultural Education and Studies Department at Iowa State University. The Swine Nutrition Guide will also be completed this year. Read more about these projects in the other activities section.

## grant opportunities

The U.S. Pork Center of Excellence continues its search for alternative sources of funding to supplement its program offerings.

Future grant opportunities include exploring the expansion of the swine schools to incorporate the different learning styles for alternative cultures. Currently the USPCE is in discussion with the University of Puerto Rico to develop a proposal for a curriculum specifically designed for the Hispanic culture. This partnership will enhance the existing swine school program and encourage those from other countries and other cultures to consider the swine industry. This project is in direct response to the ever increasing need for labor and managers in the pork industry and is intended to create a mechanism to further feed this demand.

Additionally, the USPCE is looking for additional partnerships throughout the industry, looking beyond the producer and the educational institutions to those businesses that provide services and products to the pork industry. These businesses have a vested interest in the success of the industry and their input of ideas and financial resources is highly desired.

Finally, the USPCE is committed to the success of the producer. To that end, the USPCE is using its website as a mechanism to inform producers of potential grant opportunities that exist. Examples of such programs include the Value-Added Producer Grant and the Energy Efficiency Grants, both administered by the USDA. These grants are both programs that can directly impact individual producers and greatly enhance their business opportunities.

## other activities

### **Swine Nutrition Guide:**

The Swine Nutrition Guide will be completed this year. This guide will include chapters and individual factsheets on topics. Chapters will include: Nutrient Recommendations; Nutrient Sources; Example Diets; Feed Accuracy; Feeding Systems; and other topics.

### **Sow Productive Lifetime Management Guide:**

Development of the Sow Productive Lifetime Management Guide will begin this year. The American Dairy Science Association's 13th Annual Discover Conference on the Sow Productive Lifetime will serve as a starting point for the development of the guide.

### **PIG MAP (Media Asset Portal):**

We will be adding teaching resources to PIG MAP. These teaching resources will include course guides, power point presentations, assignments and tests. The goal of this project is to allow swine professors from across the country access to other teaching material to improve their courses.

Thank you to all of our partners and those individuals who support the US Pork Center of Excellence. Without their support the USPCE would not be possible.



# USPCE partners

