

Who should attend?

The course is designed for swine specialists from commercial firms and those specialists who direct or provide technical support for swine research and extension programs.

All attendees must have a strong background in both animal science and swine production systems.

Value to participants:

Participants will receive a thorough review of current knowledge in all swine production disciplines. Copies of lecture materials will be provided. The course provides a unique opportunity for expanding personal contacts with senior swine professionals from around the world.

Housing:

A special room rate has been negotiated with the Hawthorn Suites, 101 Trade Centre Drive, Champaign, IL 61820 (217-398-3400) to house all short course participants. Rooms have either King size bed or two regular beds (double), daily house cleaner service, and cable television. Participants have the option of sharing a room with another participant or staying alone. The cost of the room is \$70 (US) for King or double (*includes full buffet breakfast*). Daily transportation to the course site will be provided. There are numerous fast food and regular restaurants located near the Hawthorn Suites.

Course Fees:

The fees for this course will be \$3,000 which should be remitted in the form of a U.S. dollar check, payable to the University of Illinois. A reduced rate will be available for groups of four or more participants from the same organization. This fee does not include motel costs. All lunches and dinners are included in the fee.

Application deadline:

To be accepted into the Advanced Swine Production Technology short course, the ASPTC office must receive a completed application form and payment of course fees (or written financial confirmation from the Participants Company or sponsoring organization) by March 31, 2005. Because space is limited, acceptance will be on a "first come, first admission" basis. On receipt of this information, the training coordinator will finalize your housing and arrange to meet your flight and transport you from the airport to your hotel. E-mail messages specifying arrival information should be sent to the attention of the ASPTC training coordinator (hollisg@uiuc.edu). To apply, please return a completed application form, plus a brief biographical sketch that includes information about your position and educational qualifications. Following your acceptance into the course, each participant will be sent additional information on the course. Applications and course fees should be sent to:

Dr. Gilbert Hollis
ASPTC Course Coordinator
Department of Animal Sciences
204 Animal Sciences Laboratory
1207 West Gregory Drive
Urbana, Illinois 61901 USA
FAX No. 217-333-7861
Telephone: 217-333-0013
E-mail: hollisg@uiuc.edu



ADVANCED SWINE PRODUCTION TECHNOLOGY COURSE

June 12-18, 2005



Sponsored by:
DEPARTMENT OF ANIMAL SCIENCES
COLLEGE OF AGRICULTURAL,
CONSUMER AND ENVIRONMENTAL
SCIENCES
UNIVERSITY OF ILLINOIS AT
URBANA-CHAMPAIGN



This intensive course will concentrate on the scientific basis of modern swine production technology. Effective integration of new technology into production systems is a major challenge for decision-makers and swine specialists who advise producers. This course will be an in-depth examination of the emerging science in pig biology and the application of these new technologies in state-of-the-art production systems. The timing of the course has been scheduled to follow the World Pork Expo in Des Moines, Iowa on June 9-11, 2005. The instructors for this course are recognized, international experts in their field. Coordinators for the course are Professors Gilbert Hollis, Michael Ellis, José Cuaron and José Cordero; Vernon Fowler will serve as one of the course facilitators. This course is based on lectures, supplemented by group discussions and activities. There will be some evening sessions, and all day instruction on Saturday. Instructors will be available for limited one-on-one consultation. The specific modules to be covered in the course are the following:

June 12, 2005

- Arrive and check-in at hotel
- Opening dinner at hotel
- Overview of UI and College of ACES
- Overview of Department of Animal Sciences and Illinois Animal Agriculture

June 13, 2005

1. Basic Concepts of Growth

- Biological variation-friend or foe
- Uterine development
- Gene expression
- Gene expression *in-utero*
- Postnatal gene expression and growth

2. Growth concepts and development

- Classical growth and development theory
- Compensatory growth

June 14, 2005

2. Growth concepts and development (cont'd)

- Practical growth concepts: Developing growth curves/Measuring growth
- Antimicrobial use issues and the future of growth promotion
- Impact of immune system on growth variation
- Growth promoters/carcass modifiers

3. Reproduction

- Reproduction-maximizing sow productivity

4. Genetics

- Current perspectives on Applied Swine Genetics
- Molecular genetics

5. Swine Health and Disease Prevention

- Managing health programs to enhance total productivity

June 15, 2005

6. Housing I: Facility Design and Pig Behavior

- Fundamentals of environmental physiology
- The porcine social environment
- Building to create a uniform growth environment

7. Housing II: Managing the Environment

- Creating a feed environment to enhance maximum feed consumption
- Managing and monitoring the environment

June 16, 2005

8. Pork Quality/Food Safety

- HACCP at the farm – overview
- Development of on-farm HACCP
- Fresh meat quality –definition and measurement
- Conversion of muscle to meat
- Quality Measurements – Pre-slaughter handling and pork quality; Post-harvest factors and pork quality

Evening Session

- Developments in US and Illinois swine production

June 17, 2005

9. Nutrition and Feeding

- Basic concepts of protein and amino-acid metabolism-implications for requirements
- Impacts of feed ingredient selection on growth
- Sow nutrition
- Suckling pig and weanling pig nutrition
- Overview of grow-finish nutrition-management to optimize efficiency
- Tropical swine production – issues affecting performance

Evening Session

- ASPTC participants will discuss HACCP programs:
Gestation period
Farrow-nursery period
Grow-finish period
Feed mixing and manufacturing

June 18, 2005

10. Business Management

- Adjustments for survival under open-trade economies
- Business management: critical points of information to enhance total production efficiency
- Integrated systems management
- Global perspectives on the future of pork production
- Roundtable discussion

REGISTRATION FORM

ADVANCED SWINE PRODUCTION TECHNOLOGY COURSE JUNE 12-18, 2005

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TITLE: (Circle one) Prof. Dr. Mr. Ms. Mrs.

SURNAME _____ **FIRST** _____

DATE OF BIRTH _____

POSITION TITLE _____

DEPT./DIVISION _____

ORGANIZATION/INSTITUTION _____

POSTAL ADDRESS:

CITY _____ **STATE/PROVINCE** _____ **POSTAL (ZIP) CODE :** _____

COUNTRY: _____

TELEPHONE: (COUNTRY) _____ **(CITY)** _____ **(NUMBER)** _____

FAX: (COUNTRY) _____ **(CITY)** _____ **(NUMBER)** _____

E-MAIL ADDRESS _____

Registration and course fees should be sent to: Dr. Gilbert Hollis, ASPTC Course Coordinator, Department of Animal Sciences, 204 Animal Sciences Laboratory, 1207 West Gregory Drive, Urbana, Illinois 61901 USA
(FAX No. 217-333-7861; (Telephone: 217-333-0013) E-mail: hollisg@uiuc.edu