

## REGISTRATION FORM

### NSIF National Ultrasound Training and Certification Conference

May 22 - 23, 2000

Registration deadline: May 1, 2000

Name/Title \_\_\_\_\_

Company Name \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Daytime phone \_\_\_\_\_

Registration fee: Certification & Training Session - \$300  
Training Session only - \$50

Payment is due May 1, 2000. **Make check payable to Iowa State University.** Registrations can also be faxed to (515) 294-5698. Payment should be sent by mail.

Return registration form and payment to:  
**Ultrasound Certification  
Rm 109 Kildee Hall  
Iowa State University  
Ames, IA 50011**

... and justice for all

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Iowa State University  
Department of Animal Science  
109 Kildee Hall  
Ames, IA 50011

## NSIF National Ultrasound Training and Certification Conference

May 22 - 23, 2000



National Swine Improvement Federation



National Pork Producers Council



Iowa Pork Industry Center

**Hosted by: Iowa State University**

### **Purpose**

The purpose of the NSIF Certification Program is: 1) to provide a program for the accuracy assessment of technicians for live ultrasonic measurement of breeding swine backfat, loin muscle area, and loin muscle depth and to grant NSIF certification to those who meet minimum standards; and 2) to provide an educational forum for the discussion and standardization of live animal measurement so as to improve accuracy of measurement and genetic improvement for lean. Guidelines for certification are established by the NSIF Certification Committee.

IOWA STATE UNIVERSITY  
University Extension



ASB 2000:TJB-428

## Who Should Attend

Persons interested in learning more about estimating backfat thickness and loin muscle area using ultrasonic scanning procedures and/or achieving NSIF certification status should attend this certification conference. Persons who become certified will retain their certification status for a period of two years. Scanners who certified at the Iowa State University certification program in 1998 should recertify at this conference.

## Accommodations

Following is a partial list of motels in Ames. Please make your own reservations.

|                               |                |
|-------------------------------|----------------|
| Best Western Starlite Village | (515) 232-9260 |
| Baymont Inn & Suites          | (515) 296-2500 |
| Comfort Inn                   | (515) 232-0689 |
| Hampton Inn                   | (515) 239-9999 |
| Heartland Inn                 | (515) 233-6060 |
| Holiday Inn Gateway           | (515) 292-8600 |
| Super 8                       | (515) 232-6510 |

## Registration Fee

Pre-registrations are due by May 1, 2000 and should be made payable to Iowa State University. Please send the non-refundable fee of \$300 to Dr. Tom J. Baas, ISU, 109 Kildee Hall, Ames, IA. Persons who are not interested in becoming certified scanners may attend the education conference on May 22 for a fee of \$50.00.

## Location

The Livestock Pavilion is located in Kildee Hall on the N.E. corner of the ISU campus. The Story County Fairgrounds is located 3 blocks south of old Highway 30 in Nevada. A map will be sent to all participants.

## What to Bring

Each participant in the certification program on May 23 is responsible for providing their own ultrasound equipment, image recording device, 110V electrical terminal strip, viewing monitor, oil, etc. to collect and interpret ultrasound images.

## ISU Will Provide

ISU will provide 50 live pigs for scanning, restraining facilities, personnel to assist in handling and moving pigs, and 110 volt grounded power supply to the participants' electrical terminal strip.

## Tentative Certification Schedule

### May 22 -Kildee Hall/ Livestock Pavilion

|                   |   |
|-------------------|---|
| 12:30 - 1:00 p.m. | Registration  |
| 1:00 - 4:30 p.m.  | New NPPC prediction equations<br>Anatomy of the pig<br>Fat and muscle deposition patterns<br>Relationships among backfat measurements<br>Carcass evaluation<br>NSIF adjustment factors and guidelines |
| 4:30 - 6:00 p.m.  | Demonstration of ultrasound scanning procedures   |
| 6:00 - 7:00 p.m.  | Pork chop dinner  |
| 7:00 - 9:00 p.m.  | Demonstration of image interpretation<br>Hands on scanning<br>Question/answer session   |

### May 23 - Story County Fairgrounds, Nevada, IA

|                   |   |
|-------------------|---|
| 7:00 - 7:45 a.m.  | Setup equipment   |
| 7:45 - 8:45 a.m.  | Exam  |
| 8:45 -11:00 a.m.  | Scan fifty pigs   |
| 11:00 - 1:00 p.m. | Interpret first scan & Lunch (provided)                     |
| 1:00 - 3:15 p.m.  | Repeat scan fifty pigs                                      |
| 6:00 p.m.         | Closing comments and all scan information must be turned in |



## Certification Procedures

Fifty pigs will be used for the scanning practicum. Each participant will scan and estimate backfat and loin muscle area and/or loin muscle depth on all 50 pigs twice. Carcass data will be collected on all pigs scanned and compared to each participant's estimate to determine certification status. The statistics used for comparison will be standard deviation of prediction, standard deviation of the difference, and bias. A written examination covering material discussed during the conference will be given to all participants desiring certification.

Individuals who regularly interpret images for scanners may also become certified. A tape containing 50 scanned images will be used for certification. Individuals will be required to provide backfat and loin muscle area for each of the 50 images twice. Data will be compared to two certified scanners to determine certification status.

## Results

All scanning interpretations will be compared against carcass measurements. Results of the certification conference will be mailed to each attendee. A list of those persons achieving certification status will be made available to the National Swine Improvement Federation for dissemination.

## NSIF Certification Committee

Steve Moeller, Ohio State University, Chairman  
Tom Baas, Iowa State University  
Earl Dotson, National Pork Producers Council  
Dallas McDermott, Harlan, Iowa  
Tom Socha, North Dakota State University

## Point of Contact

**Tom J. Baas** (515) 294-2240  
Fax: (515) 294-5698  
e-mail - [tjbaas@iastate.edu](mailto:tjbaas@iastate.edu)

