

## Instructional Staff

Course instructors are drawn from Michigan State University's Department of Animal Sciences and Large Animal Clinical Sciences. In addition, dairy industry professionals in private and public sector institutions and regulators will be invited as resource faculty.

Our training team has strong expertise in all aspects of dairy production systems. Members of our team have conducted a number of training programs both local and international settings.

## Cooperating Departments and Units

- Department of Animal Science
- Department of Large Animal Clinical Sciences
- Department of Agriculture Food and Resource Economics
- Department of Food Science and Human Nutrition



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## Application Deadline: July 15, 2013

**Registration Fee:** \$250 (Nonrefundable)  
**Course Fee\*:** \$3,250

Course fee includes instruction fee, information packages, local travel, meals and lodging.  
\*Course Fee non-refundable after July 30, 2012.

Make checks payable to Michigan State University

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MICHIGAN STATE  
UNIVERSITY

## An International Short Course in Animal Agriculture

## Best Practices in Dairy Production and Processing



August 11—16, 2013

## Course Rationale

Among developing countries, there is steady increase in the demand for milk and milk products due to favorable changes in income levels and living standards. Because of the perishable nature of milk, this increased demand creates an opportunity for local production in smallholder operations, or expanding operations within local economies.

In order to take maximum advantage of this opportunity, knowledgeable individuals are needed in both technology transfer and policy



making positions. It is toward these individuals that this course is aimed. Training addresses animal health and production, reproduction, milk processing, food safety regulations both locally and internationally, animal welfare issues, and environmental concerns. The aim is toward the transfer of technology that is applicable under the local conditions of the participants. Consideration is given to both very small family farms and expanding production operations within the agricultural framework of developing economies.

Moreover, as a result of enhanced communication and transportation technologies, access to global markets for the dairy products is getting much easier. However, due to the ever-changing international and local laws and regulations, food safety issues, animal welfare issues and stricter import/export controls, it is becoming more difficult for developing economies to compete in this global market. This course also addresses issues and opportunities in international dairy marketing relevant to developing economies in taking advantage of those markets, when favorable conditions exist.



## Course Description

A team of multidisciplinary faculty has organized a week-long course focusing on the principles of sustainable dairy production systems.

This course provides an opportunity for the participants to observe and learn the latest technological advances and best practices in dairy cattle management, nutrition, genetics, reproduction and breeding, herd health management, consumer and industry linkages, and environmental issues related to dairy production systems. This course will help the participants in their research and outreach program to incorporate emerging technologies in various aspects of quality milk production including; genetics, nutri-

tion and herd health management. Scientists will interact with the group on various aspects of quality milk production in the US. Environmental issues related to dairy production systems, including methane production and manure contamination of ground water along with current and future strategies to mitigate the problems will be discussed. Field visits will include commercial dairy farms and milk processing plants and quality control aspects of milk production systems.

## Course Components

- Overview of dairy production systems in the US
- Reproduction and breeding strategies for dairy cattle
- Feeding strategies for dairy cattle
- Herd Health Management
- Transition cow management
- Preharvest food safety in milk production
- Milk Processing and HACCP
- Regulatory aspects of milk production
- Consumer and industry linkages: Regulatory and policy issues
- Economics of milk production
- Dairy value Chain
- Environmental issues related to dairy production systems
- Animal welfare issues in dairy production systems

