

## Objectives

The objectives of this program are:

- a. to promote training which will upgrade the skills of participants making them better employees;
- b. to provide background knowledge so that participants will be better prepared to assume positions of responsibility and leadership; and,
- c. to develop in participants an appreciation for the total operation of the plant.

## Textbook and references

The textbook for the Institute will be Cane Sugar Handbook, 12th. ed. by Chen and Chou. References will be selected by instructors for their respective topics and will be reproduced, bound into a handbook and provided to each participant.

## Course Format

Classes will be lecture and discussion. Instructors will be encouraged to conduct an informal class in order to encourage questions and discussions by participants. A-V equipment will also be utilized when appropriate. After successful completion of course, four credit hours will be awarded each participant.

## Cost

The total fees for the short course are \$2,350 per participant. This includes room, board and all workshop materials. Fees for commuters are \$2,050. Housing is provided in the **new** University residence hall and is included in the fees. Local motels are available for those who do not wish to stay in the residence hall. Commuter fees would then be applicable.

Please make checks payable to:  
**Nicholls State University**

## Payment Policies

- A. Payment must be made in U.S. dollars on a U.S. bank with a U.S. address. Payment must be received one week before the Institute begins.

B. Wire transfers are no longer accepted.

- C. Any cancellation must be received before close of business on the Friday before the start of the Institute in order to receive a full refund.

## Topics

### 1. Overview of the Sugar Industry

### 2. Cane as the Raw Material

Varieties, Sampling and Payment Scale

### 3. Preparation and Milling

Storage, Washing, Chopping, Crushing/Diffusion, Maceration Water, Sanitation

### 4. Clarification and Filtration

Purification, Apparatus, Reagents, Reaction, Heating

### 5. Evaporation and Crystallization

Evaporation, Boiling Systems, Pans and Designs, Molasses Exhaustion

### 6. Centrifugals

Principles, Efficiency, Maintenance

### 7. Energy Economy

Steam Balances, Energy Balance, Electrical Utilization, Boiler Efficiencies, Bagasse as a Source of Fuel

### 8. Basic Instrumentation/Operational Computers

Juice Scales, Flow Meters, Control Valves, Operational Control

### 9. Chemical Control

Chief Chemists, Laboratory, Factory Control

### 10. Raw Sugar/Molasses/Value Added Products

Handling, Storage and Marketing

### 11. Government Programs/Regulations

Farm Bill, E.P.A., O.S.H.A., Quotas

### 12. Problem Solving, Resumé, Evaluation

Nicholls State University assures equal opportunity for all qualified persons, without regard to race, color, religion, sex, national origin, age, handicap, marital status, veterans status in the admission to, participation in or employment in any of the programs and activities operated by the University.

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## Director

Dr. Robert Falgout  
Nicholls State University  
(985) 448-4444

## Advisory Committee

Brandie M. Toups  
Nicholls State University

Greg Nolan  
Lafourche Sugars

Dr. Ben Legendre  
Audubon Sugar Institute  
LSU Cooperative Extension Service

Ray Riche  
John Deere Thibodaux

Roddy Hulett  
St. James Co-op

Dan Duplantis  
Raceland Raw Sugars

## Field Trips

USDA Sugarcane Field Lab  
John Deere Thibodaux  
Honiron, Inc.  
Enterprise Sugar Factory

For more information – go to:

[www.nicholls.edu/cnc/sugar.html](http://www.nicholls.edu/cnc/sugar.html)

NICHOLLS  
STATE UNIVERSITY  
THIBODAUX, LOUISIANA

# Raw Cane Sugar Manufacturers' Institute



**June 22 - July 2, 2009**

Department of Agriculture  
&  
Office of  
Continuing Education

**NICHOLLS  
STATE UNIVERSITY**

Office of Continuing Education  
P.O. Box 2119  
Thibodaux, LA 70310

210184 J450

## Raw Cane Sugar Manufacturers' Institute

**Please register the following information and indicate whether resident or commuter:**

Name \_\_\_\_\_ S.S.# \_\_\_\_\_ Gender \_\_\_\_\_ REGISTRATION TYPE:  
 resident  commuter  
(please check one)

Firm \_\_\_\_\_ Position \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone \_\_\_\_\_ E-mail \_\_\_\_\_

**Return to:** Dr. Robert Falgout, Office of Continuing Education, Nicholls State University, P.O. Box 2119,  
Thibodaux, LA 70310. Telephone 985.448.4444. FAX: 985. 448.4552, liz.iver@nicholls.edu