

SEMINAR SERIES DESCRIPTION

National C-FAR's Seminar Series regularly presents leading-edge researchers to address pressing issues confronting the public and Congress. National C-FAR and the Seminar Series serve as a resource to policymakers and all congressional staff.

Seminar Series Contributing Sponsors

Agronomy, Crop and Soil Science Societies
American Bakers Association
American Dietetic Association
American Society for Nutrition
Bayer CropScience
CHS Foundation
Council for Agricultural Science and Technology (CAST)
Council on Food, Agricultural & Resource Economics (C-FARE)
CropLife Foundation
Dr. William Danforth
Elanco Animal Health
Illinois Soybean Association
Institute of Food Technologists
North American Millers' Association (NAMA)
Syngenta
United Soybean Board
University of Wyoming
Weed Science Society of America

**THE NATIONAL COALITION FOR
FOOD & AGRICULTURAL RESEARCH**

<http://www.ncfar.org>

R. Thomas Van Arsdall, Executive Director

Phone: (703) 509-4746

E-mail: tom@vanarsdall.com

L u n c h ~ N ~ L e a r n S E M I N A R



THE NATIONAL COALITION FOR
FOOD & AGRICULTURAL RESEARCH

**TURNING TODAY'S CROPS INTO
TOMORROW'S FUEL**

*"Infrastructure Considerations for Biomass Harvest,
Transportation, and Storage"*

CAST Report, Convergence of Agriculture and Energy: IV

September 13, 2010

PROGRAM

Welcome and Introduction

DANA PETERSON
NATIONAL C-FAR REPRESENTATIVE

Introduction to CAST

DR. JOHN M. BONNER

Distinguished Speaker

DR. JERRY FRUIN
The University of Minnesota
St. Paul, Minnesota

Open Forum

Closing

DANA PETERSON

NATIONAL C-FAR IS a nonprofit, nonpartisan, consensus-based and customer-led coalition that brings food, agriculture, nutrition, conservation and natural resource stakeholders together with the food and agriculture research and extension community, serving as a forum and a unified voice in support of sustaining and increasing public investment at the national level in food and agricultural research, extension and education. For additional information, go to www.ncfar.org; or contact Tom Van Arsdall, Executive Director at tom@vanarsdall.com.

ABSTRACT

Many believe that biomass energy sources will eventually replace fossil fuels, and with issues of the environment, economy, and national security at stake, all aspects of this effort are under consideration. This paper focuses on case studies that demonstrate new developments regarding the infrastructure needed for the harvest, transportation, and storage of cellulosic material. The sustainable amount of biomass that can be removed from the field is directly related to the amount of carbon in the soil, the amount of macronutrients removed in the biomass, and the mass left in the field to protect the soil from erosion. The authors believe the sustainable collection of biomass feedstocks is an important consideration for cellulosic ethanol production. The full text of CAST commentary QTA2010-1 is available at www.cast-science.org.

SPEAKER BIOGRAPHY

Jerry Fruin, Ph. D., is an Associate Professor in the Department of Applied Economics and a Center for Transportation Faculty Scholar at the University of Minnesota. His broad areas of expertise are reflected in his current research that centers on the national and international transportation and logistics requirements for agricultural commodities and biofuels and the adequacy of U.S. bulk commodity transportation infrastructure. He has also produced research regarding the management of rural road systems, the economics of biomass energy systems, and the economics of transportation on U.S. rivers and lakes. Dr. Fruin has written many published works including articles for the *American Journal of Agricultural Economics* and the *Journal of the Transportation Research Forum*. He serves as an External Peer Reviewer to the U.S. Army Corps of Engineers for the Feasibility Study to rebuild locks on the Upper Ohio Navigation System. His activities include the North Central Regional Committee on Competitiveness and Value-Added in the U.S. Grain and Oilseed Industry.