INNOVATIVE SOLUTIONS
FOR A HEALTHY AND PRODUCTIVE WORLD

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Food is the **INDISPENSABLE CORNERSTONE** of human well-being. Food sustains life, promotes health, and builds functional societies.

A sample of ISFS projects:

**Food, Health and Nutrition**
- Interventions to reduce environmentally caused enteric dysfunction
- Evaluating the importance of animal protein for human health
- Hazard analysis of fruit and vegetable supply chains
- Reduction of mycotoxin contamination and disease

**Global Food Security**
- Understanding spread of disease resistance genes through global crop breeding networks
- Seed systems, soil and ecosystem studies
- Understanding international seafood trade implications for nutritional security

**Tools for Decision Makers: Global Food Systems Models**
- Decision Support System for Agrotechnology Transfer (DSSAT): forecasting, climate change impact projections, water resource management, use of models to inform best management practices
- Impact Network Analysis applications to plant disease, transmission, and control
- Public health impacts of interventions in animal and produce food chains, development of disability adjusted life year metric

**Food Production (Agriculture, Aquaculture and Fisheries), Natural Resources and the Environment**
- Tradeoffs between agricultural production, environmental, and social impacts of intensification
- Role of aquaculture and fisheries in the changing food system
- Reducing waste in the US seafood value chain

**New Metrics**
- Fisheries Performance Indicators (FPI) to assess economic, community, and ecological sustainability of fisheries
- Implementation of the Sustainable Intensification Indicators Framework
Advancing sustainable food systems that:
- Efficiently produce, process, and distribute safe and nutritious food;
- Are profitable and produce jobs;
- Conserve natural resources and the environment; and
- Are resilient to economic and environmental changes.

ISFS Faculty:

James Anderson, Director of the Institute for Sustainable Food Systems and Professor, Food and Resource Economics Department. Expertise: natural resource management, fisheries and aquaculture economics, markets and international trade.

Frank Asche, School of Forest Resources and Conservation. Expertise: fisheries management, energy economics, and economics of food systems production and trade.

Karen Garrett, Plant Pathology Department and Emerging Pathogens Institute. Expertise: system improvement in agricultural and ecological systems, especially of plant disease epidemiology.

Arie Havelaar, Animal Sciences Department and Emerging Pathogens Institute. Expertise: quantitative approaches to foodborne diseases and prevention.

Gerrit Hoogenboom, Agricultural and Biological Engineering Department. Expertise: using systems analysis to understand the food production system with an emphasis on crop simulation model and decision support system development.

Cheryl Palm, Agricultural and Biological Engineering Department. Expertise: metrics and indicators for assessing the sustainability of agricultural intensification.

Pedro Sanchez, Department of Soil and Water Science. Expertise: tropical soils, food security, and the environment in Africa and Latin America.

ISFS Fellows:

Senthold Asseng, Agricultural and Biological Engineering Department. Expertise: atmosphere-crop-soil systems analysis.

Greg Kiker, Agricultural and Biological Engineering Department. Expertise: ecological modeling and management of natural systems.

Our Collaborators:
- 27 visiting scholars from 12 countries
- 25 post-doctoral associates, research staff, and graduate students
- >60 collaborating faculty from UF and around the world