

Soil Quality: the Foundation for Natural Resource Conservation

A 1-Day Workshop

Co-sponsored by the Soil and Water Conservation Society's Southeastern Chapter;
the Soil Science Society of America's S-3 Soil Quality Working Group; and
the USDA-NRCS National Soil Quality Technology Development Team

- 8 am – 10:00 am **The Foundation Resource**
General Session (Dr. Susan Andrews, USDA, NRCS – Moderator)
in the theater
- Why Soil Quality?*
- Dr. Bill Puckett, USDA-NRCS Deputy Chief for SS&RA
- The Relationship Between Soil Quality And Other Natural Resources:*
-*Soil Quality and Water Quality*
- Dr. Dory Franklin, USDA-ARS
-*Soil Quality and Air Quality*
- Dr. Alan Franzluebbbers, USDA-ARS
-*Soil Quality, Biodiversity and ecosystem services*
- Dr. Cindy Cambardella, USDA-ARS
- Soil Quality Assessment Techniques*
- Dr. Doug Karlen, USDA-ARS
- Need for Soil Policy in the US*
- Mr. Craig Cox, Executive Director, SWCS
- 10:00 to 10:30 am **Networking break**
- 10:30 – 12:00 pm** **The Role of Soil Quality in Current Environmental Issues**
Pick two *Format: case studies or regional issues presentation and discussion*
45 min. sessions Two 20 minute presentations per session plus 20 minute discussion
- a-sessions
begin at 10:30
- a- **Energy Biomass Production and Soil Quality**
(Dr. Miguel Cabrera, UGA – Moderator)
Residue Removal and Soil Quality
- Dr. Susan Andrews, USDA-NRCS SQ Team Leader
Biomass Production and Soil Carbon
- Dr. Jane Johnson, USDA-ARS, Morris MN
- a- **Management Impacts on Soil Quality**
(Dr. Alan Franzluebbbers, ARS- Moderator)
Soil Management and Carbon Trading
- Dr. Ratan Lal, The Ohio State University
Dynamic Soil Properties in Soil Survey
- Ms. Arlene Tugel, USDA-NRCS, Soil Survey Division

b-sessions
begin at 11:15

b- SQ and Water Conservation

(Dr. Dana Sullivan, ARS – Moderator)

Conservation Tillage for Water Conservation

- Dr. Francisco Arriaga, USDA-ARS, Stoneville, MS

Runoff and Herbicide Transport Under Conservation Systems

- Dr. Martin Shipitalo, USDA-ARS Coshocton, OH

b- SQ & Global Policy

(Dr. Sarah Workman, NRCS – Moderator)

The European Union's Thematic Strategy for Soil Protection –

- Dr. Dick Thompson, Director, National Soil Res. Inst. UK

Soil Quality and Policy in Brazil

- Dr. Francisco Rodrigues-Holanda, Federal Univ. of Sergipe, BR

12 pm – 1 pm Lunch

Afternoon Concurrent Sessions

Presentations followed by facilitated group discussions to problem-solve and brainstorm on solutions, opportunities or needs for management, outreach, education, research, and policy.

1 pm – 2:45 pm

Pick one

Concurrent

Session 1-3

Management Techniques for Better Soil Quality

1) Soil Quality for Water Management

(Dr. Francisco Arriaga, ARS – Moderator)

Water Conservation in Arid Dryland Cropping Systems

- Dr. Merle Vigil, USDA-ARS Akron, CO

Managing Saline Soils

- Mr. Ray Archuleta, USDA-NRCS National SQ Team

Irrigation and Tillage Management

- Dr. Dana Sullivan, USDA-ARS, Tifton, GA

Soil Management Techniques to Improve Water Quality

- Dr. Seth Dabney, USDA-ARS, Oxford, MS

2) Quality Soil Management on Croplands

(Dr. Cindy Cambardella - Moderator)

Conservation Management In Cropping Systems

- Dr. Francisco Rodrigues-Holanda, Federal Univ. of Sergipe, BR

Conservation Tillage in the Central Valley, CA

- Dr. Jeff Mitchell, University of California

Tillage and Cover Cropping Effects on Soil Quality

- Dr. George Naderman, NC State (retired)

Managing Soil Quality in Organic v. Conventional Systems

- Dr. Michelle Wander, University of Illinois

3) Soil Quality in Grazinglands and Working Forests

(Dr. Holli Kuykendall – Moderator)

Managing Soils in Rangelands

- Mr. Jerry Daigle, USDA-NRCS LA

Pasture Management for Soil Quality

- Mr. Dan Wallace, USDA-NRCS, Athens, GA and

- Dr. Holli Kuykendall, USDA-NRCS, Greensboro, NC

Healthy Forest Soils

- Mr. Lyn Townsend, USDA-NRCS, Portland, OR

2:45 to 3:00 pm Short break

3:00 pm- 4:00 pm **Assessing Soil Quality**

Pick One

Concurrent

Session1-4

1) Field & Lab Assessment

(Dr. George Naderman – Moderator)

Soil Health Assessment

- Dr. John Idowu, Cornell University

Soil Quality Field Assessment

- Mr. Mike Sucik, USDA-NRCS, State Soil Scientist, Iowa

2) Soil Quality Estimation Using Models

(Mr. Norm Widman- Moderator)

The Soil Conditioning Index

- Dr. Ted Zobeck, USDA-ARS, Lubbock, TX

Estimating Soil Quality for the National SQ Assessment Project:

A Subcomponent of CEAP

- Dr. L. Norfleet, USDA-ARS, RIAD

3) US Policy and SQ Assessment

(Dr. Dory Franklin - Moderator)

Soil Quality in US Policy

- Mr. Craig Cox, Executive Director, SWCS

Soil Quality in the Proposed 2007 Farm Bill

- Ms. Carole Jett, USDA-NRCS Farm Bill Coordinator

4:00 pm -5 pm

Full Session

in the theater

Where Do We Go From Here?

Short reports from moderators the day's sessions and follow-up discussion

Moderators: Drs. Dory Franklin and Susan Andrews