

Update on The Center for Turfgrass Environmental Research and Education at N.C. State University

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Center Administration

- ◆ Fred Yelverton, Co-Director
- ◆ Tom Rufty, Co-Director
- ◆ Rick Brandenburg, Co-Director
- ◆ Emily Erickson, Associate Director

Why form a “Center”?

Consortium between industry and academia where industry identifies research needs and academia provides the expertise to address those needs.

Why form a “Center”?

To form a partnership more closely with industry.

To create an administrative structure that bridges department lines.

To create a performance-driven evaluation and research funding process.

Key Points

- ◆ This is NOT a facility
- ◆ It parallels the development of the new Turf Field Laboratory on Lake Wheeler Road
- ◆ All segments of turf industry are equally represented
- ◆ Other recent developments (eg. Turffiles upgrade)



TurfFiles

NC State

Weed ID Form

December - February
TurfTips

April - June TurfTips

June - August TurfTips

September - November
TurfTips

Teaching
Research
Extension/Outreach

County
Extension Offices



Plant Insect and
Disease Clinic

Turf Disease
Diagnosis Form

News

01-14-03 - Course Syllabus - Spring 2003
12-10-02 - Fire Ants
12-09-02 - CS053 Landscape Lecture 11
12-06-02 - CS053 Final Exam -- December 10, 2001

[more news...](#)

Upcoming Events

01-14-03 - An Internet class on Residential Lawn Management

[more events...](#)

Recent Publications

02-21-03 - 2003 Turfgrass Herbicides (Formulations and Manufacturers)
02-18-03 - Maximizing Insect Control with Insecticide Applications
02-14-03 - AG-408 Pest Control for Professional Turfgrass Managers 2003
02-12-03 - Insect Powerpoint 2

[more publications...](#)

Turfgrass
Council
of NC



Turf Workgroup
Directory

[Turflinks](#)

Page Last Updated: 03-20-2001
Questions or comments about this site?
[E-mail the webmaster](#)



Did you know...

You can switch between a regular-sized Internet Explorer window and full-screen mode by pressing F11.

[Next tip](#)



TurfFiles

NC State

TurfFiles Publication Index

Categories

- [Turfgrass Management](#)
- [Diseases and Pathogens](#)
- [Insect Management](#)
- [Weed Management](#)
- [Soils and Fertilizers](#)
- [Water Quality](#)

Turfgrass Management

- [AG-348: Turfgrass Pest Management Manual](#)
- [AG-367: Tall Fescue Lawn Maintenance Calendar \(PDF Version\)](#)
- [AG-381: Centipedegrass Lawn Maintenance Calendar \(PDF version\)](#)
- [AG-408 Pest Control for Professional Turfgrass Managers 2003](#)
- [AG-408: Pest Control for Professional Turfgrass Managers 2002](#)
- [AG-421: Selecting and Managing Lawn Grasses for Shade](#)
- [AG-429 Bermudagrass Athletic Field Maintenance Calendar](#)
- [AG-430: Tall Fescue and Kentucky Bluegrass Athletic Field Maintenance Calendar](#)
- [AG-431: Bermudagrass Lawn Maintenance Calendar \(PDF version\)](#)
- [AG-432: Zoysiagrass Lawn Maintenance Calendar \(PDF version\)](#)
- [AG-540: St. Augustinegrass Lawn Maintenance Calendar \(PDF version\)](#)
- [AG-541: Carpetgrass Lawn Maintenance Calendar \(PDF version\)](#)
- [AG-628: The Calibration of Turfgrass Boom Sprayers and Spreaders](#)
- [AG-69: Carolina Lawns \(PDF Version\)](#)
- [Control of Algae and Moss in Turfgrass](#)
- [Cool Season Turfgrass Varieties for North Carolina](#)
- [Course Syllabus CS/ENT/PP 495T-Spring 2003](#)
- [CS053](#)
- [GRASSCYLING](#)
- [Lawn Maintenance from June-August](#)
- [Maximizing Insect Control with Insecticide Applications](#)
- [North Carolina Sod Producers Directory \(2002-2003\)](#)
- [Organic Lawn Care--A Guide to Lawn Maintenance and Pest Management for North Carolina](#)
- [Plateau Now Labeled for Bermudagrass Pastures and Hay Fields](#)
- [September - November Calendar for Turfgrasses](#)

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www.turffiles.ncsu.edu



Key Points

- ◆ A new approach to faculty cooperation
- ◆ A new approach to industry/university interaction
- ◆ A new approach to funding
- ◆ A new mechanism for funding and accountability

Additional Incentives

- ◆ Increased faculty and program visibility
- ◆ Increased attractiveness to donors, sponsors, and partners
- ◆ Enhanced faculty recruiting

Center for Turfgrass Environmental Research & Education

- | | |
|---------------|--|
| August 2000 | Steering committee formed to plan the Center's establishment |
| October 2000 | Document requesting permission to plan submitted |
| April 2001 | Approval given to plan |
| July 2001 | Lobbying effort elevated |
| December 2001 | Final legislative vote allocating \$\$\$ for the Center |

Center for Turfgrass Environmental Research & Education

- February 2002 Funding becomes available
- February 2002 1st Center Symposium for
FY 01-02
- April 2002 2nd Center Symposium for
FY 02-03
- February 2003 Center Advisory Board Meets
- March 2003 3rd Center Symposium for
FY 03-04

Annual Funding Amounts

Center	\$600,000
NCDA	\$100,000
NCTF	\$150,000 average

Focus of Funding

NCTF

Regional or sector specific. More applied rather than basic research undertaken.

Center

1. Impact of fertilization and management on the environment.
2. Environmentally favorable turfgrass production and maintenance.
3. Reduce adverse environmental impacts by educating the public.

NCDA

Outreach/Extension

Initial Funding

- ◆ Prudent Expenditures of Funds
- ◆ Emphasis on Infrastructure
- ◆ Enhancement of NCTF Funds

Center for Turfgrass Environmental Research and Education Board of Advisors - 2002

Kenny Gilmore, Supply and Manufacturing

Jim Humphries, Landscape Management

Sam Lang, Lawn Care

Bob Rogers, Golf

Charles Tomlinson, Utility and Sports Turf

Clark Wooten, Sod Production

Marihelen Glass, NC A&T

Eric Young, NC State

Projects Funded FY 01-02

- ◆ Construction of USGA Putting Greens at New Turf Field Lab – Turf Work Group
- ◆ Varietal Evaluation Program – Bruneau
- ◆ Fate of Pesticides in Managed Turfgrass Systems – Yelverton, Weber, Leidy, Brandenburg
- ◆ Fate of Nitrogen Applied to Turfgrasses – Rufty, Bowman, Cassel

Projects Funded FY 01-02

- ◆ Biological Control of Insects & Management Strategies for Oriental Beetle Grubs – Brandenburg
- ◆ Turfgrass Transformation for Environmental Protection – Qu
- ◆ Nutrient Effects on Suppression of Rhizoctonia spp in Tall Fescue and Bentgrass – Peacock & Shew

Projects Funded FY 01-02

- ◆ Environmental Turfgrass Education for Southeastern NC – Martin
- ◆ Outreach Activities for Turfgrass Management Strategies for Environmental Protection – Cooper
- ◆ Measuring Gas Loss of N from Golf Course Fairways – Mikkelson & Gilliam

Projects Funded FY 01-02 (NCDA)

- ◆ Development of Computer-Based Decision Aids and Certified Turfgrass Professional Program Training – Bruneau & Erickson
- ◆ Development of Web-Based Certified Turfgrass Professional Program Training – Alston (NCA&T)
- ◆ Weed Management Decision Support System for Turfgrasses – Wilkerson

Center for Turfgrass Environmental Research and Education Board of Advisors - 2003

Bob Bell, Supply and Manufacturing

Sam Lang, Lawn Care

Bob Rogers, Golf

Charles Tomlinson, Utility and Sports Turf

Charles Harris, Sod Production

Marihelen Glass, NC A&T

Steve Leath, NC State

Projects Funded FY 02-03

- ◆ Turfgrass Transformation for Environmental Protection – Qu
- ◆ St. Augustine Breeding for Improved Agronomic Traits – Bruneau & Qu
- ◆ Cultivar Evaluation Program – Bruneau
- ◆ Fate of Nitrogen in Cool-Season Turf – Rufty, Bowman, Cassel

Projects Funded FY 02-03

- ◆ Research Aid for Development of BMPs for Turf Insects – Brandenburg
- ◆ Fate of Pesticides in Managed Turf Systems – Yelverton, Weber, Leidy, Brandenburg
- ◆ Management of Diseases in Cool- and Warm-Season Turf – Tredway
- ◆ Development of IPM for Gray Leaf Spot in Tall Fescue and Perennial Ryegrass – Peacock & Shew

Projects Funded FY 02-03

- ◆ Nutrient Effects on Rhizoctonia spp. in Tall Fescue and Bentgrass – Peacock & Shew
- ◆ Microbial Turfgrass Interactions in Controlling Nitrogen Leaching – Shi, Bowman, and Mikkelsen
- ◆ Maintaining Infrastructure for Environmental Analytical Capabilities – Bowman
- ◆ Administrative Support for Center - Erickson

What Has the Center Done for Us?

- ◆ Research & outreach activities have increased dramatically. However, research results are just now becoming available.
- ◆ Significantly enhanced NCSUs reputation in the turfgrass scientific community.
- ◆ Many inquiries by potential graduate students.
- ◆ Allowed Turf Foundation to focus research efforts.

What Has the Center Done for Us?

- ◆ Starting to address immediate and long-term research & outreach needs of the NC turfgrass industry.

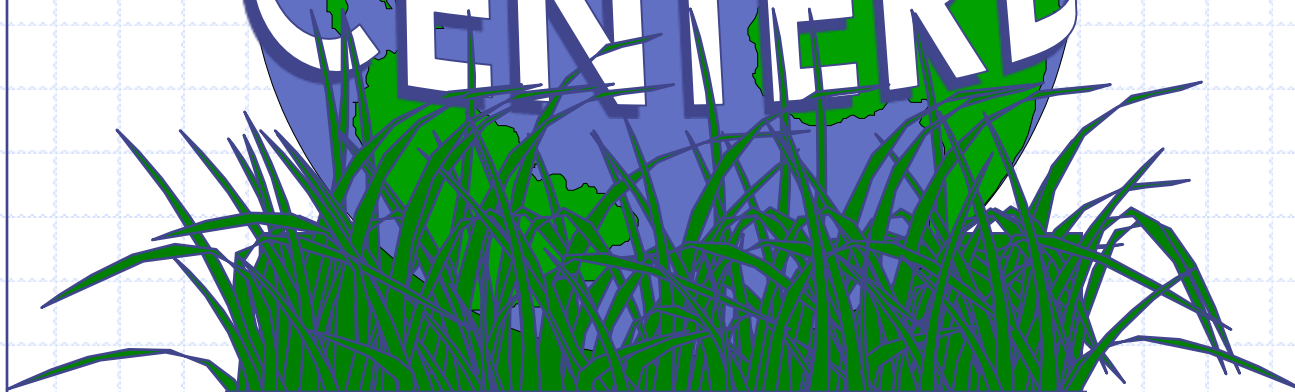


THANKS!!

To everyone who played a role in this
effort

Center for Turfgrass and Environmental Research and Education

CENTERE



NC STATE UNIVERSITY