

FPC Strategic Planning Meeting December 7-10

Meeting Registration

Registration is \$60 per member company (not per person). Only one person per member company needs to register.

Overview

Each Topic Session has an individual registration link. Please make sure to register by **December 1st** for each individual session you plan to attend. We will sort registrants into “break out groups” so we need to know who will be there ahead of time.

AGENDA – See below for additional details on contents of Topical Sessions

Note: Sessions are of different time periods to account for scope of topics

All times are in Eastern Standard Time

Monday, December 7

<https://ncsu.zoom.us/meeting/register/tJ0qfu6oqDoiEtRDcKQUoMwzucBI9x1gOUbM>

12:00-1:00 Introduction: Accomplishments since last strategic plan, survey results, overview of structure of meeting

1:00-3:00 Nutrition (2 hr)

Tuesday, December 8

<https://ncsu.zoom.us/meeting/register/tJErfumqqzvwHN2MjhFclj-6hDeSib006cH6>

12:00-2:00 Vegetation Management (2 hr)

2:00-3:00 Density Management & Early Silvicultural Treatments (1 hr)

Wednesday, December 9

<https://ncsu.zoom.us/meeting/register/tJYvce2srDspGtzKo5PV181oysGs3zLUTvx6>

12:00-3:00 Remote Sensing: LiDAR and Satellite Imagery (3 hr)

Thursday, December 10

<https://ncsu.zoom.us/meeting/register/tJMpdO6tpzpkGNYIbyKBQF-ROcM ISnTH-iG>

12:00-1:00 Decision Support Systems

1:00-3:00 Cross topic ranking of priorities

Wrap-up, final comments & discussion, voting procedure

Friday, December 11 to Thursday, December 17

Member voting, votes due by close of business Thursday, December 17

Details on Topical Session Subtopics

Each bullet point is considered a “subtopic” that would generate a new study and will be the level for voting on the final day.

Monday, Day 1: Nutrition and Site-Specific Resource Supply (2 hr)

Overview of Current Research: Soil mapping, P-carryover, Indicators (biotic/abiotic) of potential supply, Nutrient carryover (P carryover, ¹⁵N seedling carryover), RW20 Resource allocation/Nutrient use efficiency, Single tree plots w/Cu on Organic soils

- Soil mapping for potential response and productivity to fertilization
- What/how much fertilizer to use on different soils
- LAI-based rate applications
- Micronutrients application (how, when, which ones)
- Long-term availability within rotation
- Long-term nutrient availability within a rotation (magnitude and duration of response by soils)
- Long-term nutrient cycling across rotations (¹⁵N availability studies, litter, decomposition)
- Mid-rotation fertilization: Crown recession & potential response (interactions with genetics)

Tuesday, Day 2 Part 1: Weed Control (2 hr)

Current research: ¹⁵N Timing of Fertilization vs Herbicide with different levels of understory competition at Appomattox, VA

- Vegetation Control vs Fertilization: Midrotation release response (Soil specific response)
- Vegetation Control vs Fertilization: Timing during rotation (pre vs post thin)
- Type of competition & intensity (Competing vegetation succession)
- Effect of duration of competition presence
- Volunteer pine: extent of the problem (position paper), edge effects, control in SMZs & edges
- Volunteer pine: how best to control (chemical vs pct)
- Volunteer pine: does fire create additional need for fertilization?
- Site preparation: Herbicide Sensitivity (imazapyr damage)
- HWC fall vs spring
- Banding vs broadcast
- Duration of control

Tuesday, Day 2 Part 2: Density Management & Other Silviculture questions (1 hr)

Current research: Genetics x Silviculture x Spacing (RW20), Thinning x Fertilization & Second thinning (RW19)

- Genetic improvement and initial stocking
- Lower initial densities & veg control
- Growth & resilience (Heat tolerance & drought stress)
- Tip moth control (long term growth & variability; in collaboration with forest health coops)
- Timing of early silviculture

Wednesday Day 3 Remote Sensing (3 hr)

- Precision applications (Stand selection vs sub stand level)

LiDAR

- Competing veg quantification (LAI, biomass, other indices for predicting response)
- Crop tree LAI
- Ground truthing
- Stand inventory (Ht & BA), young and post thin with LiDAR (Juvenile fert or veg control)
- Genotype structure (in collaboration with TIP)
- How to operationalize
- Slash pine

Satellite

- LAI (crop tree)
- Competing veg LAI estimates (current and past)
- Slash pine
- Explore: NAIP, Sky sat, Planet, SAR

Thursday Day 4 Part 1: Tech Transfer & Decision Support Tools (1hr)

Tech Transfer and Decision Support Tools

- Soil mapping (average vs potential site index; fertilizer response)
- Lidar Support Center
- Modeling - LobDSS update
- Economic decision calculator

Thursday Day 4 Part 2: Cross Topic Ranking of Research Priorities (2hr)

We will take the top ranked topics from each session for ranking by members

Wrap up of research topics, final thoughts, and how and when to vote