



# Plantation Management Research Cooperative

Warnell School of Forestry & Natural Resources

UNIVERSITY OF GEORGIA

## 2021 PMRC Annual Advisory Committee Meeting July 14-15, 2021

**Registration Link (both virtual and in-person must register):**

<https://gail.uga.edu/events/wfnr/2021-pmrc-annual-advisory-committee-meeting>

### Wednesday, July 14 (12:00 pm Start)

12:00 Box lunch available from 12-1pm.

#### *Introductory Session*

- 1:00 Welcome and Introductions (Bullock and Montes)
- 1:15 Warnell Dean's Perspective (Dean Dale Greene)
- 1:30 PMRC Overview and Updates (Bullock)
- 1:50 Strategic Research Priorities – Existing and New Initiatives (Montes)

#### *Results Session 1: Height modeling*

- 2:20 Modeling dominant height and response to silvicultural treatments using differential equations  
Laura Ramirez-Quintero, PMRC PhD Student – Forest Biometrics
- 2:40 Incorporating genetic improvement and competition control in GADA site index models for loblolly pine  
Melissa Shockey, PhD; Visiting Professor of Environmental Studies,  
Environmental Studies Department, Brevard College, Brevard, NC
- 3:00 An LAI driven dominant height model  
Stephen Kinane, PhD; Analyst, Timberland Investment Resources
- 3:20 New site index equations for mixed southern hardwoods: An application of data assimilation  
Anil Koirala, PMRC PhD Candidate – Forest Biometrics
- 3:40 *Break (Coffee and snacks)*

Results Session II: Incorporating remotely sensed data into modeling efforts

- 3:50 Endogenous vs exogenous mortality drivers for loblolly pine  
Cristian Montes, PhD; PMRC Co-director
- 4:10 Using taper models to estimate total height  
Allison Sheeks, PMRC MS Student – Forest Biometrics
- 4:30 Importance of water table depth in predicting site index  
Holly Munro, PhD; Post-doctoral Research Associate in Forest Biometrics, UGA
- 4:50 Field program update and PMRC research trial review  
Spencer Peay, PMRC Research Coordinator and Analyst
- 5:20 *Adjourn Sessions*
- 5:30 Social(ly) Distanced Hour
- 6:30 Catered Dinner at Flinchum's Phoenix  
[Food will be plated/served by caterer]

**Thursday, July 15 (8:30am Start)**

- 8:00 *Coffee and breakfast snacks*

Results Session III: Disturbance and mortality modeling

- 8:30 First-thin loblolly pine mid-rotation treatment (MRT) research study update  
Bronson Bullock, PhD; PMRC Co-director
- 9:00 Assessing vegetation responses to mid-rotation silvicultural treatments in Southern yellow pine plantations  
John Young, PMRC PhD Student – Forest Biometrics
- 9:20 Evaluating and predicting severe wind damage risks at multiple scales in southern U.S. forests  
Christine Cairns Fortuin, PhD; Post-doctoral Research Associate in Forest Biometrics and Forest Entomology
- 9:40 Another look at the Clutter-Jones stand mortality model  
Mingliang Wang, PhD; PMRC Research Database Manager and Analyst
- 10:00 *Break (Coffee and Snacks)*

*Results Session IV: A mixed bag*

- 10:10 Evaluating high density, short-rotation pine plantations – stumpage economics – preliminary analysis  
Benjamin Protzman, PMRC MS Student – Forest Biometrics
- 10:30 Modeling basal area yield using simultaneous equations system incorporating uncertainty estimators  
Simón Sandoval, PhD; Assistant Prof. of Forest Biometrics, Univ. of Concepción
- 11:00 Variation of C:N:P stoichiometrical ratios among aboveground biomass components in mid-rotation loblolly pine plantations  
Dehai Zhao, PhD; PMRC Senior Research Scientist
- 11:30 Leveraging PINEMAP, growing CAPPs – Soil health in managed forests  
Daniel Markewitz, PhD; Professor, Soil Site Productivity, UGA  
Fernanda Oliveria, PhD; Post-doctoral Research Associate, UGA
- 12:00 Lunch Break – followed by **Business Meeting at 1:00 pm**  
[food will be plated/served by caterer]



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## **Business Meeting for PMRC Members and Personnel Only**

### **1:00 Business Meeting**

**(Randy Taylor, Molpus, 2021 Executive Committee Chair presiding)**

2020 Meeting Minutes

Update on Strategic Priorities and Strategic Plan 2020-2025 (Montes)

New Silviculture x Genetics Growth and Yield Research Study (Bullock)

New Growth and Yield Validation Plots (Montes)

#### Work Plans

2020 Work Plan and Accomplishments

2021 Work Plan Status

2022 Proposed Work Plan

#### Budgets

2019 Financial Statement

2020 Financial Statement

2021 Status and Projection

2022 Proposed

Committee to evaluate Membership Policy updates

Membership Recruitment (Bullock)

CAFS Updates (Montes)

Fall Contact Meeting (Montes)

Joint with NCSU CTIP – December 7-9, 2021 – Southeast Georgia

Next AC Meeting – July 13-14, 2022 (Wednesday – Thursday), Athens, GA

New Business

### **3:30 Adjourn**

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