



2024 Northeastern (NEMO) and Southern Mensurationists (SOMENS) Annual Joint Meeting

November 3-5, 2024

Von Trappe Lodge, Stowe, Vermont

<https://mensurationist.net/nemo-somens-2024-annual-meeting/>

Sunday, November 3, 2024			
Time	Event/Title	Speaker	Location
6-8 PM	Welcome reception & buffet dinner (Main Lodge Dining Room)		
8-10 PM	Social & Networking (Hospitality Suite)		
Monday, November 4, 2024 (Mozart Room)			
Time	Event /Title	Speaker	Location
7-8 AM	Group buffet breakfast (Main Lodge Dining Room)		
8-8:15 AM	Welcome & meeting logistics	Aaron Weiskittel & Bryan Foster	Mozart Room
8:15 – 9:00 AM	Keynote	Kim Iles	-
Student Oral Presentations			
9:00 – 9:15 AM	Aboveground biomass estimation in Brazil	Thomas Harris (Yale)	-
9:15 – 9:30 AM	Genetic improvement in growth and yield models	Mariano Trachta (NCSU)	-
9:30 – 9:45 AM	Optimal site selection models for eastern cottonwood and black willow	Quentin Boccaleri (MSU)	-
9:45 – 10:00 AM	Improving precision in forest inventory through small area estimation for loblolly pine plantations in coastal Georgia	Bipana Subedi (VT)	-
10:00 – 10:30 AM	Morning break		-

Student Oral Presentations			
10:30 – 10:45 AM	Accurate prediction of tree survival in loblolly pine	Dinuka Senevirathne (UGA)	-
10:45 – 11:00 AM	Different approaches for diameter distributions in loblolly pine plantations in the western gulf region	Gabriel Maciel (UGA)	-
11:00 – 11:15 AM	Accurate quantification of the density-growth relationships	Emmerson Chivhenge (UMaine)	-
11:15 – 11:30 AM	Teak plantation diameter distribution modeling	Olakunle Ogunyemi (SUNY)	-
11:30 – 11:45 AM	Small area estimation in areas of high sample non-response in the USFS FIA inventory	Bergit Uhran (UT)	-
11:45 – 12:00 PM	Loblolly pine plantations' response to different fertilization rates in varying vegetation control	Iván Raigosa-García (NCSU)	-
12:00 – 1:00 PM	Lunch		
Student Oral Presentations			
1:00 – 1:15 PM	Determination of spatial variation in forest productivity in the southeastern USA using a climate productivity index	Deborah Ugaldes (UGA)	Mozart Room
1:15 – 1:30 PM	FIADB direct - An R/RStudio server interface for efficient FIA data access and analysis	Aakriti Sapkota (VT)	-
1:30 – 1:45 PM	Assessing the long-term effect of thinning on stand dynamics using Weibull distribution	Segun Adedapo (UGA)	-
1:45 – 2:00 PM	Remotely sensed canopy and litterfall trends of longleaf pine plantations in southern Georgia	Noah Shephard (UGA)	-
2:00 – 2:15 PM	Height-diameter models for pantropical forests	Tara Skiba (UT)	-
2:15 – 2:30 PM	Pruning effect on live crown ratio model for intensively managed loblolly pine plantation	Kamana Parajuli (VT)	-
2:30 – 3:00 PM	Afternoon break		
3:00 – 3:15 PM	Height-diameter model and yield projection differences under throughfall exclusion and fertilization treatments on a loblolly pine plantation in the southeast US	Lainey Paulus (UGA)	Mozart Room
3:15 – 3:30 PM	Modeling dominant height using stand, soil characteristics, and water balance variables for loblolly pine in the West Gulf of the US	Simón Sandoval (UGA)	-
3:30 – 3:45 PM	Testing Fay-Herriot inferences from US national forest inventory county-level estimates of live tree aboveground biomass	Qianqian Cao (VT)	-
3:45 – 4:00 PM	Capturing longleaf pine plantation productivity in the southeastern US with linear and non-linear models including environmental co-variables	Hyatt Tripp (UGA)	-
General Oral Presentations			

4:00 – 4:15 PM	PyFIA: A comprehensive tool for basic statistical operations to more advanced analyses for FIA data	Xinyuan Wei (UMaine)	Mozart Room
4:15 – 4:30 PM	A framework for quantitative sugarbush silviculture	John Foppert (Paul Smith)	-
4:30 – 4:45 PM	Revised equations and algorithms for the Acadian Variant of FVS	Greg Johnson (Johnson Biom. LLC)	-
4:45 – 5:00 PM	Benchmarking forest growth models in New England	Ben Rice (Midgard Nat. Resources)	-
5:00 – 5:30 PM	Poster Flash Talks (Mozart Room)		
5:30 – 6:30 PM	Poster session (Bierhall Observ. Deck)		
5:30 – 7:30 PM	Live acoustic folk fiddlers		-
6:30 – 8:30 PM	Group buffet dinner (Main Lodge Dining Room)		
7:30 – 8:15 PM	Trapp family history recounted by family member		-
8:30 – 10:00 PM	Social & Networking (Hospitality Suite)		
Tuesday, November 5, 2024 (Mozart Room)			
7-8 AM	Group buffet breakfast (Main Lodge Dining Room)		
General Oral Presentations			
8:00 – 8:15 AM	Modeling stand growth of Chinese fir plantations	Quang Cao (LSU)	Mozart Room
8:15 – 8:30 AM	Adoption of RD for optimizing management in New England	Ryan Smith (SILC)	-
8:30 – 8:45 AM	The Acadian Growth Model (AGM): Evolution, design, and implementation	Ian Prior (SILC)	-
8:45 – 9:00 AM	Fertilization under uncertainty: A stochastic programming model for forest management	Stephen Kinane (UGA)	-
9:00 – 9:15 AM	Point sampling considerations	Corey Green (VT)	-
9:15 – 9:30 AM	Are delayed harvests and extended rotations for maximizing carbon?	Bruno Kanieski da Silva (UGA)	-
9:30 – 9:45 AM	Influence of genetic improvement and vegetation control on the growth and productivity of coastal plain loblolly pine	Túlio Barroso Queiroz (UGA)	-
9:45 – 10:00 AM	Red spruce taper and volume in the Appalachian Mountains	Steven Morrone/ Corey Green (VT)	-
10:00 – 10:30 AM	Morning break		
General Oral Presentations			
10:30 – 10:45 AM	A continuous forest inventory for New Hampshire state lands	Ken Desmarais (NH Division of Forests & Lands)	Mozart Room
10:45 – 11:00 AM	Variability in pine growth responses to site-preparation methods in the lower coastal plain of the southeastern US	Dehai Zhao (UGA)	-

11:00 – 11:15 AM	A new, continuous diameter distribution function in honor of Bill Leak	Mark Ducey (University of New Hampshire)	-
11:15 – 11:30 AM	Using site index curves to estimate individual tree height growth	Mike Strub (Retired)	-
Awards & Business Meeting			
11:30 – 11:45 AM	Mike Strub Challenge, Student Presentation, Lifetime Achievement, and Early Career Awards		Mozart Room
11:45 – 12:00 PM	NEMO/SOMENS business meeting		-
12:00 – 1:00 PM	Lunch		-
1:00 – 5:00 PM	Field tour (Optional)		Trapp forest
1:00-2:30 PM	Lower mountain group (w/ Ali Kosiba) & upper mountain group (w/ Allan Thompson)		-
2:30-3:00 PM	Part of group departs for airport & remaining lower & upper mountain groups switch locations		-
3:00-4:30 PM	Lower mountain group (w/ Ali Kosiba) & upper mountain group (w/ Allan Thompson)		-
4:30-5:00 PM	Field trip concludes		Main lodge

Posters	
Title	Presenter
Preliminary study of bivariate Fay-Herriot for county-level forest biomass and volume	Qianqian Cao (VT)
Integrating FIA data, climatic factors and an improved imputation approach into forest disturbance modeling	Sujan Subedi (VT)
Inference for a Minimum Detectable Negligible Difference (MDND): A practical tool for your analytics toolset	Philip Radtke (VT)
A view of the 2024 revision of “DS Cruiser” data collection and processor	Ken Desmarais (NH Division of Forests and Lands)
High-resolution modeling of spruce habitat suitability in Maine	Ashley Carter (UMaine)
Remote sensing of aboveground biomass in Brazil	Thomas Harris (Yale)
Modeling of dasometric variables in eucalyptus plantations using LiDAR information: a comparison between parametric and non-parametric approaches incorporating biophysical variables	Simón Sandoval (UGA)
Practical applications of distance-dependent growth and yield models	Benjamin Protzman
Testing the Accuracy of TreeMap v2016 in New Hampshire	Rue Teel (University of New Hampshire)