



## SCIENCE & TECHNOLOGY COMMITTEE MEETING: CHAT ROOM

DATE: WEDNESDAY, SEPTEMBER 22, 2021

ORIGINATOR	QUESTION / COMMENT
Dennis Liu:	Looks like a really outstanding operation!
Rose Marie Muzika:	promote snake habitat for mice control!
Kendra Collins:	You can also remove the plastic mulch and use herbicide for vegetation management.
Andrew Newhouse:	Tom, it's exciting that you planted a former high-light tree outdoors! I would just suggest keeping a close eye on it for flowering in the future - once it's flowered, it might flower sooner than trees of similar age that have been outdoors all along. That's OK as long as it gets bagged etc. in compliance with your permit - you can still use the pollen!
Thomas Klak:	Sounds good Andy – I'll continue to watch FA234 like a hawk. So far: cool that it has been able to transition from lab to field... and yes bag any TG pollen if it emerges: interesting question: since is already knows how to produce pollen (genes turned on), will it do it quickly in the field?
Andrew Newhouse:	I think it's likely to flower early (or continue flowering). It also might be seasonally "out of sync" in terms of flowering, so keep an eye on it even outside of typical flowering season. I'll look forward to hearing how it does!
Andrew Newhouse:	I need to get going to another meeting - feel free to email with any further questions!
Cherin:	Thank you Andy!
Dennis Liu:	Could we please go back to gallery view and stop screen sharing
Dennis Liu:	We should talk to Robin Wall-Kimmerer
Rose Marie Muzika:	Restoration of a Biome is a unique enterprise
Rose Marie Muzika:	That approach is referred to as variable retention harvesting
Lisa Thomson:	I am reaching out to Richard Powers, the author of the Overstory, to see if he'll join us at the Asheville Chestnut Symposium Sept. 28-Oct. 2, 2022. I often call new donors to thank them and many have said "I joined TACF because I read the Overstory!"
Brad Stanback:	I don't think TACF needs to worry about raising funds for restoration plantings. I view our role as bringing to fruition the pie-in-the-sky dream of developing an American chestnut that has enough disease resistance to survive and reproduce in a wild forest. Once we have done that, there will be plenty of government agencies, NGOs, and forestry nurseries that will constitute a tremendous demand for our "product" and will have the funding to pay the costs of producing and planting the trees. Even though the target area is mostly a closed-canopy forest, within our lifetimes there will be plenty of places (mountain cattle pasture, forest clearcuts, occasional sites cleared by wildfire) to get a LOT of trees established. The longer term goal of chestnut becoming a dominant component of the eastern forest will be an evolutionary process. We can do a few things to enhance the process, but if we start with good trees, the trees themselves will eventually take over the task of restoration.
Dennis Liu:	CRISPR-Cas9 approaches sound promising. Is there commercial value to Chinese Chestnut? Seems like there would be a funder out there to generate our deletion library.
Jay:	I have another call at the top of the hour. Great meeting! Great info! Thanks.
Jeanne Romero-Severson:	Crisper-CAS does not work as neatly as in the infographic.
Dennis Liu:	Same here, thanks all
Kendra Collins:	Me too - have to run to another call. Thanks everyone!



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Ross Whetten:	Thanks, Jared - very nice presentation!
Jeanne Romero-Severson:	I have to go to teach.
John Scrivani:	Hi Brad - Very good point and part of the reason I wanted to mentioned the need for relying on partnerships. Other organizations are working on restoring eastern forests and we can provide the appropriate tree to assist them. It might be good for us to do a little research on how best to use that appropriate tree. One additional point, we can't plant enough tree and hopefully the ones we plant will successfully colonize more forest land on their own. We may wish to learn how we can best plant to facilitate that colonization, which I don't think is currently known.
Bruce:	Hi. I don't think Jared is ignoring breeding either. I think the balance is good too. I just think we need to keep in mind why we are doing what we are doing with Darling 58.
JULES:	NICE JOB ON THAT PHOTO, SARA!!!
Lisa Thomson:	I have to run to another meeting to present a Fundraising 101 talk to a partner organization with Samantha Bowers. Thanks to all of you who attended to support the great work of TACF science staff and collaborators. Great meeting, great job, Steve!
Deborah Delmer:	Just want to say Congratulations to Steve for putting together a GREAT meeting!!

