

On-Farm Breeding & Seed Saving Workshop

Ithaca, NY

March 19, 2003

Introduction:

Twenty-four people were attendance for the On-Farm Breeding and Seed Saving Workshop given at the Guterman Greenhouses on the Cornell University campus. Prior to arrival, registrants were mailed an introductory packet containing the day's itinerary, a map of the campus as well as many reading materials to prepare them for the day. Bagels, coffee and tea awaited the group at the start of the session. Lunch was catered by Harvet Deli.

Schedule:

8:45 am – 9:00 am	- Registration
9:00 am – 9:15 am	- Why regionally developed varieties? Implications for Breeding for Organic systems (M. Glos and M. Henning)
	- SRI
	- Ask Audience for desirable traits
9:15 am – 9:30 am	- Introduction to Plant Breeding & Seed Saving (M. Glos)
9:30 am – 10:00 am	- On-farm Selection and Breeding (J. Gorzynski)
10:00 am – 10:15 am	- Break
10:15 am – 11:15 am	- Pollination (cucurbits: cucumbers, melons, squash; lettuce, spinach) (G. Moriarty, M. Falise, M. Henning)
	- Conquest project (deybridization)
11:15 am – 12:15 pm	- Breeding Methods Suitable for Using On-farm I
	- Variability (Johannsen's bean experiment)
12:15 pm – 1:00 pm	- Lunch (catered by Harvet Deli)
1:00 pm – 2:30 pm	- Breeding Methods Suitable for Using On-farm II (M. Smith)
	- self pollinated and cross pollinated crops
	- differences between phenotype & genotype
	- methods of mass selection
	- grid method
	- address practicality of desired traits mentioned earlier
2:30 pm – 3:30 pm	- Pollination (peppers and tomatoes) (M. Falise, G. Moriarty and N. VanEck)
3:30 pm – 4:30 pm	- How to improve a vegetable you like, or create a new one (M. Henning)
4:30 pm – 5:00 pm	- Breeding Projects discussion (M. Glos)

Pictures from the Breeding Workshop:



Showing pollination of peppers and lettuce in the Guterman Greenhouses to half the group.



Male (top) and Female (bottom) cucumber flowers.



Mark Henning discussing cucumber breeding.



Peppers used in breeding project.



Isolated cucumber flower after hand pollination (top) Peppers for breeding (right)



Visitor searching for cucumber pollen.



Female squash flower and fruit.



John Gorzynski discussing On-farm Breeding

Workshop Attendants

1. Marguerite Wells, Berkshire, NY
2. Jim Sharpless, Organic Matters Farm, Lyons, NY
3. Gloria J. Cestero-Hurd, Rhinebeck, NY
4. Doug Haslett, Green, NY
5. Trina Pilonero, Silver Heights Farm, Jeffersonville, NY
6. John Gorzynski, Gorzynski's Ornery Farm, Cohecton Center, NY
7. Ruth Bennett, Waterloo, NY
8. Rivka Davis, Roads End Farm, Dundee, NY
9. Kathy Gorthey, Barneveld, NY
10. Chris Harmon, Oneota, NY
11. Maureen Barger, Newark Valley, NY
12. Sasha Dubrul, Four Winds Farm, Gardiner, NY
13. Mathias Reisen, Healing Spirits Herb Farm, Avoca, NY
14. Michael Mohnahan, Kaunedga NY
15. Mary B. Graham, Trumansburg, NY
16. Dan Lathwell
17. Betsy Ingall, Cornell University
18. Greg Palmer, Peacework Organic Farm, Newark, NY
19. Crawford McFetridge, Bellona, NY
20. Michael Glos, PSI Staff
21. Mark Henning, PSI Staff
22. George Moriarty, PSI Staff
23. Teri Ferrin, PSI Staff
24. Anu Rangaragan, PSI Staff
25. Margaret Smith, Cornell, Presenter
26. Matt Falise, PSI Staff