NE 179 minutes

Respectfully submitted,

---gmhyde@wsu.edu, Secretary

Paul Heinemann, Chair   10/4/01, ~9 am.

Attendees:	Affiliation	Email address
1. Aneshansley, Dan	Cornell-Ithaca	dja4@cornell.edu
2. Donahue, Darrell	Univ. of Maine	darrell.donahue@umit.maine.edu
3. Guyer, Daniel	Michigan State Univ.	guyer@msu.edu
4. Hang, Yong	Cornell-Geneva	ydh1@cornell.edu
5. Heinemann, Paul	Penn State Univ.	hzh@psu.edu
6. Hung, Yen Con	Univ. of Georgia	yhung@griffin.peachnet.edu
7. Hyde, Gary	Wash. State U.	gmhyde@wsu.edu
8. Lu, Renfu	USDA-ARS-MSU	lur@msu.edu
9. Mount, Mark	Administrative Advisor	mount@fnr.umass.edu
10. Rao, Andy	Cornell-Geneva	mar2@cornell.edu
11. Rao, Ram	CSREES-USDA	rrao@reeusda.gov
12. Rohrbach, Roger	NC State U	rohrbach@eos.ncsu.edu
13. Stroshine, Richard	Purdue University	strosh@ecn.purdue.edu
14. Throop, James	Cornell-Ithaca	jati12@cornell.edu

Station reports

G. M. Hyde—Washington State

Richard Stroshine—Purdue

Magnetic resonance instrumentation for fruits and vegetables.

Paul Heinemann—Penn State

Electronic nose and detecting of honey and olive oil adulteration; meat quality evaluation, food irradiation detection, pathogen detection and bacteria identification

Roger Rohrbach—NC State:

Optical sorting, ripeness detection, soluble solids/acid ratio

Renfu Lu—USDA-ARS @ Michigan State U

Low-cost portable NIR measurement of fruit firmness and sugar content. NIR reflectance for firmness measurement. Light absorption less with firmer fruit, opposite for sugar content. Hyperspectral imaging.

Dan Guyer—Michigan State

Apple firmness measurement, insect detection, defect detetion.

Darrell Donahue—U. of Maine

Blueberry juice work; over-wintering blueberry maggot flies for summer research; spectrometer systems evaluations related to color sorting; scanned 1200 berries for fly maggots.

Yen Con—University of Georgia (handout)

Line-scan x-ray onion inspection; Grape firmness, temperature sensing in cooking hamburger patties to assure adequate cooking.

Jim Throop, Cornell (handout)

Electronic apple sorting cooperatively with Don. Peterson and W. Anger; apple surface optical defect detection; conveying system that orients all cultivars regardless of shape.; X-ray image sensing of internal defects

Andy Rao, Cornell-Geneva

Heat effects on starch and resulting mechanical properties of diced potatoes; dynamic mechanical analysis.

Ram Rao—CSREES-USDA representative

RFP's coming out earlier this year. Time to put our proposal together. RFP routinely asks for comments from stakeholders, our views either in proposal or by email to a director—

IFAFS section 401

Mark Bailey, mbailey@reesda.gov

Rodney Foil rfoil@reeusda.gov

Daniel Schmoltz dschmoltz@reeusda.gov

Food safety 406

Jan Singleton jsingleton@reeusda.gov

A recent IFT paper showed funding is relatively low for postharvest processing or food technology research, where 80% of the value is added to foods in postharvest.

Budgets appear fairly safe at this point.

406 Food Safety funding is lower.

Have new leader NPL

New farm bill may be larger next year.

More on IFAFS: Legislation, 401 calls for areas of importance: food technology, food safety, and nutrition together as one of 5 areas. Part of functional foods

Announcements:

Postharvest Unlimited in a conference in Belgium in June, 2002. Web site is:

http://www.agr.kuleuven.ac.be/aee/vcbt/events/ph_unltd/start.htm

Presentations at Potsdam on online Japanese data base for grower production information. $100,000 funding. And European cooperation (ASTEQ) is pulling together technologies to do cooperative research .

NE 179 Business Meeting: Agenda

1. **Call to order 1:10pm**
2. **Thanks to host for good meeting facilities, good food, friendly atmosphere**
3. **Minutes of 2000 meeting—approved by acclamation**
4. **Comments from Mark Mount -- Paperless management system**

Handout of 'request to write a proposal'

Handout of web page at www.agnr.umd.edu/users/NERA

Handout of web page on multistate research activities menu at www.agnr.umd.edu/userforms/nera/index.html

We must submit an annual report within 60 days from today (about Dec 1), handout of web site of our last report. Get it to Mark Mount sooner. He will put report and minutes up on the web and provide the URL.

Report on IMPACTS, how this work is helping society right now, not procedures or accomplishments. Eg: industry use of information on yellow spuds. No limit now on number of publications listed.

Paul Heinemann is going to write the report with our input and suggestions. He may need more impact information.

Handout of format for MRAA report: follow it exactly!

www.agnr.umd.edu/userforms/nera/NE form.html

20,000 characters doesn't mean we can ramble on. Mark puts in the authorization code at the bottom of the form.

Mark submits final copy. Suggestion: follow form, but do it as a Word document so it's easy to edit, submit to Mark when final, and he will paste into on-line form.

Handout: Current Research Information System http://cristel.nal.usda.gov/

5. Project re-write

Who are currently NE179 members? Judy Abbot is still a USDA-ARS member. Others?

Rewrite is due Jan 1, 2002 to Mark. We must suggest to top notch people, including industry, (4) to review it, Mark sends it to them, and we revise and resend to Mark.

Each station research director must submit the resource commitment; i.e. the commitments of each researcher as percentage of time.

Dan Guyer: We already have a start from Hawaii meeting.

Mark suggests each station send in a report following the guidelines of the proposal, so that the leader can just combine station reports into final report.

Sharing of expensive equipment is an important part of the multistate cooperation idea.

Leadership in rewrite?? Paul Heinemann, temporary.

6. NE179 web site

Darrell got comments from only 2-3 of us. Mark says if you go to 'cow' page you can link to Mark's web page at: www.umass.edu/maes

Darrell suggests that the permanent NE179 web page ought to be on the Maryland server, not in Maine. The Maine web address is: http://www.umebre.maine.edu/NE-179grp/

7. Grant writing-joint effort

Some should come out of project rewrite coordination.

SBIR grants are also a possibility. One GRA is $25,000/year. Can't have very many universities involved and have enough money to do much. Maybe a max of 3-4 universities on a project. NE179 objectives will help define how this will fit together.

How do we leverage NE179 $ into funding for research? Answer: we only get money to travel to NE179 meetings; none for direct research; but the discussions are very valuable for sounding board for those who get to these meetings.

8. Officers Yang Tao is secretary next year, Gary Hyde Chair

Nomination for new member at large (who also serves as secretary). They must be official station representative:

Darrell Donahue, Stan Prussia, Renfu Lu. Nominations closed. Darrell Donahue was elected. (suggest Renfu for next year).

9. Other business

If project is approved: Next year's meeting, right after Oct 1, Maine. Darrell will arrange visits too see blueberry, cranberry and lobster processing.

If not approved, then we must meet before the end of September 2002.

Business Meeting adjourned 2:20 pm.

Project Proposal writing session

Paul Heinemann has emailed notes from this discussion to the NE 179 members.

End of day 1

Day 2:

The NE 179 group toured the Food Science Building laboratories at Cornell University—Geneva Campus. The facilities web address is: www.nysaes.cornell.edu

We toured, among others, Yong Hang's lab, Andy Rao's lab (physical properties), Randy Worobo's lab (UV juice pasteurization), John Roberts' lab (microwave + convection heating), the flavor & aroma lab, the Fruit & Veg. Pilot Plant, Olga Padilla-Zakour's New York State Food Venture Center, and the Vinification and Brewing Technology Laboratory.

After lunch a few of us enjoyed some nice wines at two wineries with Yong Hang, a very able host and guide.

Our thanks to the people at Geneva for hosting an enjoyable and productive meeting.