

## Minutes of the 2000 Meeting of the W-45 Technical Committee

**Project:** Environmental Transformation, Exposure and Effects of Pesticide Residues

**Date:** June 4 – 6, 2000

**Location:** Utah State University  
Logan, Utah

**Host:** Steven D. Aust

**Representatives:** Members of the Technical Committee in attendance were:

Administrative Advisor	Ronald S. Pardini
Florida	Li-tse Ou
Hawaii	Qing Li
Maryland (USDA/ARS)	Cathleen Hapeman
Nevada	Glenn C. Miller
New York	Ann T. Lemley
	Suzanne Snedeker
Oregon	Jeffrey Jenkins
Utah	Steven D. Aust

### **Sunday June 4, 2000**

The members of the W-45 technical committee had dinner together at 5:00 p.m. The meeting was officially convened and introductions made. After dinner, the members reassembled at 8 p.m. in project review subcommittees for critiques of the annual reports.

### **Monday June 5, 2000**

Chair Jeff Jenkins convened the meeting at 8:30 a.m. in Biotechnology Center on the Utah State campus. Dr. Paul Rasmussen, Utah State University Agricultural Experiment Station Director welcomed the W-45 technical committee to the Utah State campus and provided a brief overview of the experiment station, university and state. He acknowledged the pesticide research done and expressed the demand for further pesticide research.

**The minutes of the 1999 meeting in Las Cruces, New Mexico were approved (Jeff, I do not remember we did this, but it should be included).**

Dr. Ronald S. Pardini, the administrative advisor to W-45 addressed:

AREERA 1998 (Agricultural Research Extension Reform Act) requires the plans of action for Agricultural Experimental Stations and Cooperative Extension to include:

- stakeholder input;
- demonstration of responses to stakeholders;
- peer and program review for research and extension; and
- research programs involved multiple states and multiple agencies.
- integration of research and extension

A good example of stakeholder input is the Coalition for Food and Agricultural Research (CFAR) in the State of Illinois. CFAR secured \$15M for research for the Illinois Ag Experiment Station. The impact of the multi-state projects needs to be reported to stakeholders to obtain their input and support. Stakeholder input and support can be a big help for research. Multi-state involvement is important, since AREERA 98 requires that 25% of the federal allocation to research and extension be utilized to support multi-state activities.

Dr. Pardini informed the technical committee of the action of the Western Directors to approve the W-45 project proposal. The Research Implementation Committee (RIC) and Regional Coordination and Implementation Committee (RCIC) reviewed the new proposal submitted by the W45 committee and RIC recommended approval. The new project is entitled “mechanisms and mitigation of agrochemical impacts on human and environmental health”, which starts from October 1, 2000 to September 30, 2005. RIC strongly recommended emphasizing mitigation, finding solutions for residue problems. RIC also encouraged obtaining the involvement of industry and regulatory agencies such as EPA as well as other agencies and disciplines.

The W-45 committee greatly appreciated the effort of the proposal writing committee members – Drs. Hapeman and Jenkins. Drs. Hapeman and Jenkins’s leadership on the proposal and concept were also acknowledged.

Dr. Hapeman suggested discussing the topics of the new project, and planning the project ahead. All the committee members participated in the discussion on new topics, scope and collaboration of W-45 project. The discussion was summarized as follows:

Dr. Jenkins: This committee may interface with several other national groups, or western regional groups. This committee may meet in Maryland with Natural Resources Conservation groups.

Dr. Lemley: This committee has multi-state involvement already for years. This is one of the strengths of this group. We do not want to loss it, but improve it. This committee may recruit new members to add on the new expertise to the project.

Dr. Pardini: Suggest adding disciplines for mitigation objectives. Many regional projects are under funded. More money is needed to support the integration of multiple objectives.

Dr. Aust: Express the concerns of how to incorporate the involvement from multiple states. He suggested this committee invite speakers, and suggested nutrients such as nitrate remediation as a possible new topic. After the discussion of Dr. Ou's report, Dr. Aust mentioned that human gene sequencing has been finished and it is time to suggest for next phase studies. This committee may suggest an organism for gene sequencing. The committee may want to plan future work and start to think about ideas for the next project renewal.

Dr. Snedeker: Logic topics and "Triangle" approach may be a good strategy to attract people. Ecotoxicological impact of pesticides on coral in Hawaii is one of examples of collaborative projects.

At this point, all the committee members have agreed that the interaction and communication are the motivation of all the PIs on this committee to come together for years. There is no financial reward, but all the members have looked for collaboration and professional interaction.

Dr. Hapeman: We may write joint proposals. When we consider in term of having a focus, there should be no problems to incorporate nutrients in the W45 project. Wetland can be lined well with the scope of the W45 project.

Dr. Snedeker: Surfactant work is another possibility of new topics. It would be nice to have travelling support.

Dr. Jenkins: Mention a person in John Hopkins who conducts wetland research.

Dr. Lemley: The committee can continue to have regular agendas for the meetings as we always do, but can arrange a certain portion of the time for new topics and new potential members or collaborators.

Dr. Miller: Express his appreciation of the critique on the report, and of knowing different perspectives of each of our research.

Dr. Pardini: Suggest having an action plan, and specific topics, and re-emphasize the need of the impact statement/sheet and submission of a collective summary of multiple states impact sheet.

It is agreeable for all the W-45 members at the meeting to add an impact section in the annual report in the Section III on the first page. Impact is different from reflections.

USDA representative James Parochetti was not in attendance and therefore no remarks were forthcoming from the USDA.

Fewer members who attended the meeting this year than the previous years were due to unavoidable cases. There were eight W-45 members and one administrative advisor to

W-45 at the meeting. The attendants were Drs. Aust, Hapeman, Jenkins, Lemely, Li, Miller, Pardini, Ou, and Snedeker.

The secretary, Qing Li, was instructed to collect a \$20.00 meeting fee from everyone in attendance to pay for various costs associated with holding the meeting. The funds were turned over to Dr. Steven Aust, the meeting host.

The remainder of the day was spent on the project reviews. The format for the reviews was that the project leader provided a brief oral summary of the project. This summary was followed by an oral critique by the assigned lead reviewer of the review team which had reviewed the project the night before. As part of the oral critique, the project leader was asked to answer specific questions that were raised by the review team. Following this, the floor was then opened for a general discussion of the project. Each project review was allocated 30 minutes.

All meeting participants were then hosted for dinner at 6:00 p.m. at the home of Dr. Aust, the meeting host.

## **Tuesday June 6, 2000**

The meeting was convened at 8:30 a.m to discuss potential collaborations, new members and the next year's meeting host and dates.

### **On-going and potential collaborations:**

Drs. Wilson (UC-Davis) and Jenkins (Oregon State): A collaboration between Dr. Wilson and Dr. Jenkins has been undertaken for a comparison of the benchmark dose (Jenkins) for acetylcholinesterase (AChE) depression with AChE assay (Wilson). Dr. Jenkins sent the samples to Dr. Wilson at Davis.

Drs. Jenkins (Oregon State) and Felsot (Washington State): A proposal for a study of mating disruption from organophosphates (OPs) is submitted. The project is attempted to study the dissipation of OPs in a combination of OPs and pheromones for cotton moth control.

Drs. Lemley (Cornell) and Jenkins (Oregon State): Collaboration on pesticides in dusts may occur between the two groups. The two groups have on-going projects to study the fate of and exposure to pesticides in dusts.

Drs. Miller (Nevada) and Li (Hawaii): Both Nevada and Hawaii groups are interested in phototoxicity polycyclic aromatic hydrocarbons (PAHs) and some dyes to aquatic species.

Drs. Krieger (UC-Riverside), Li (Hawaii), and Pritsos (Nevada): There is an on-going collaborative project between the Hawaii and UC-Riverside groups on urinary biomarkers of PAHs for cigarette smoking. Dr. Pritsos is working on the oxidative

stress of second hand smoking. These projects are similar and have collaboration potentials.

**New members:**

Dr. Kevin Armbrust – University of Georgia

The committee reviewed the project description submitted by Dr. Armbrust and discussed his research projects and activities. His research interests and projects fall within the scope of W-45. Dr. Glenn Miller recommended a motion for acceptance of Dr. Armbrust as a member of W-45. Dr. Qing Li seconded. The committee voted unanimously for acceptance.

Dr. Snedeker mentioned Dr. James Burkhart and described his work on ecotoxicology. Dr. Snedeker also suggested hormone work on pesticides such as thyroid receptors and endocrine disrupters as possible W-45 research topics. Dr. Snedeker will contact with Dr. Burkhart for his interests in being a W-45 member or associate member.

Dr. Lemley will contact with Dr. Judd Nelson for his interest as a W-45 member and association.

Dr. Jenkins will send a copy of the W-45 proposal to the potential members. New members need to submit an Appendix-D form.

Dr. Jenkins will contact with Drs. Josef Seifert, Jack Watson, and John McColl for their interests in association with the W-45.

Off list members: Dr. Jay Gan is substituted with Dr. Papiernik.

Associate members: Dr. Andrew Ogram

Emeritus members: Dr. Donald Crosby.

Dr. Miller moved and the W-45 committee agreed that the W-45 committee would invite an EPA-OPP member to talk with the committee on a number of issues such as FQPP, risk cup, the agency philosophy and direction, general policy for 1.5 hours. Drs. Hapman and Jenkins will look for suitable candidates in EPA-OPP.

**Next year's W-45 meeting host and location:** Dr. Hapeman graciously volunteered to host the next meeting of the W-45 technical committee in Beltsville. All the committee members accepted.

**Dates of next year's W-45 meeting:** Dates for the next meeting were discussed and June 3–5, 2001 was agreed to be the first choice and June 10-12<sup>th</sup> as the backup dates.

The committee used the remaining short period of time to discuss the research scope of W-45 again.

Dr. Aust mentioned his bioremediation research of polymers using white rot fungi. The committee considered that Dr. Aust's bioremediation research of polymers would fit well in the scope of W-45 project. Pesticide applicator training work also fits in the scope. Extension presentation is appropriate to be included in the report.

Dr. Jenkins mentioned pesticide impact program is phasing out in next a few years. **?Pesti-manage-eco?** regional center (401) will be established in the next a few years. W-45 may be involved with this center to establish a potential connection. This can be a second connection after EPA.

The meeting adjourned at noon.

### **Acknowledgment**

All the W-45 members wish to thank our host Dr. Steven Aust for hosting our meeting in Logan and the gracious hospitality on Monday night. All the members appreciated the efforts of Drs. Hapeman and Jenkins on the proposal writing.

Respectfully submitted,

Qing X. Li  
W-45 Secretary