

# WASHINGTON STATE COMMISSION ON PESTICIDE REGISTRATION

## MINUTES (APPROVED)

January 13-14, 2004  
Hilton Portland & Executive Tower Parlors  
Portland, OR

### ATTENDEES

**Commission Members:** Chuck Masters, Art Losey, Herb Teas, Andy Jensen, Dan Robinson, Kurt Volker, Doug Walsh, Ann George, Ben Barstow, Brian Sakuma, Kathleen Emmett, Ann Byar, Bill Mason, Kevin Corliss, Bob Berger, Jay Schafer, Eric Johanson on behalf of Ted Maxwell

**Staff:** Alan Schreiber, Deena Martin

**Unable to Attend:** Ted Maxwell

**Guests:** Sandra Ristow, WSU

### 10:10 MEETING CALLED TO ORDER WITH QUORUM/ INTRODUCTIONS/ PUBLIC COMMENTS/PREVIOUS MINUTES:

Herb Teas asked for any public comments or input. There was none.

Minutes will be approved tomorrow morning.

### TREASURER'S FINANCIAL REPORT:

Alan Schreiber gave an overview of what has not been spent in allocation. \$930,165.03 is under spent in allocated dollars being held at WSU for forward allocations. \$432,000 worth of requests will be reviewed during this 2-day meeting. All of the current proposals could be funded, but it should be awarded to those requests that are worthy.

A question was asked regarding how much money WSU will allow as forward allocations. Alan Schreiber had no firm answer, but gave his impression of what WSU's thoughts are. Forward Allocation funding is from 04/05 funding and is not part of the expense/budget sheets yet. Discussion was held regarding understanding of forward allocation. Herb Teas had a question regarding funding from 2001 that are unallocated in the WSU financial report. Alan Schreiber's response, "WSU has not always spent the oldest funds first and as a result there are funds from previous years that have not yet been spent. WSU is attempting to spend the old funds first and it is expected that these older funds will be used up relatively soon."

Profit and Loss for July 1, 03 –January 12, 04: Alan Schreiber shared the new account title under Proposal Match which is an "in and out" account of \$21,000. Halfway through the fiscal year, expenditures are only 10% of the expenses. Travel and Meeting expenses may have been

budgeted downward too much. It is anticipated that the Travel Meeting costs will go over, but Operating Expenses will be under budget. Overall expenses are expected to be under budget.

Ann George asked if any categories under Operating Expenses are outstanding expenses from ADG or WSU that have not been included. Ann George asked about turn around time from WSU in paying bills. Alan Schreiber stated he is not satisfied with the manner in which all matters have been processed in a timely manner. Some of this might be attributable to turn over in WSCPR staff, but for the most part the time delays are associated with WSU. There was a concern expressed that at the halfway point during the year that none of the administrative fees are included. Alan Schreiber pointed out that most, but not all of the administrative fees have been paid.

### **ADMINISTRATOR'S REPORT:**

The tour this year will be on the East Side and with a format that is similar to that of 2 years ago. Detailed information was given regarding the itinerary of the tour. Alan Schreiber asked if anyone knows state regulatory people, government people, and any ag/chem people who should be invited to this tour to let him know. Ann George asked if there was a tentative date. Alan Schreiber responded it would be the 3<sup>rd</sup> or 4<sup>th</sup> week of July,

An inquiry was received by a legislator as a mechanism for channeling funding for WSU. Alan Schreiber was approached by WSU with a concept for Safe Food 2 initiative. In 2005 legislation, WSU and WSCPR would be ideal time to determine funding and how it takes place.

The Office of Governor misplaced all nominations to the WSCPR for the last vote. When speaking with them, Alan Schreiber learned that the Governor's office has placed term limits on boardmanship, to limit it to 10 years. However, exceptions can be requested. Bryan Sakuma and Ann George fall outside the guidelines. Alan Schreiber has requested an exception. Alan is waiting to hear from the Governor's office.

### **PROPOSAL PRESENTATIONS:**

**10:30 04AN009-Potatoes**

**Bill Snyder, WSU**

The first area of research is looking at field corners. Looking for plant mixes; try to draw in beneficial insects to corners. Several techniques have been reviewed for tracking insect movement; think the better way is fluorescent dusting technique. 2<sup>nd</sup> part of research is green manures. Match will be with the Potato Commission funding in Feb. Most of money is for ½ time assistant. Question by Kurt Volker about D-VAC sample. Volker expressed concern regarding how many fields are being incorporated. Presenter stated he would go to 5 different fields monthly to review progress. Concern was seconded by Ben Barstow about how this project would be carried out. Bill Snyder shared he did not have a good feel as to how this would work at this point, but would determine that early on in the project.

**10:45 04AN062-Alfalfa Seed**

**Bill Snyder, WSU**

The match has been pledged from Alfalfa Seed Commission, contingent upon funding from WSCPR. Bill Snyder has been trying to learn more about system including both pests and beneficials. This is a big field survey. The researchers are looking for ways to avoid sprays, and understand what all the different sprays are for. Growers are interested more in biological repellents instead of chemicals. Part of project is collecting cultural practices from growers. The proposal is to get money to continue the field study for year 2. Kurt Volker asked who the money is for and was told it is for a grad student. Bob asked what the cost was for year 1 for this project. Response was \$11,000 for WSCPR portion.

**11:00 04AN031-Rangelands, dryland crop**

**Steven Link, WSU**

The study proposes to look at integrated strategy to manage cheatgrass. The goal is to reduce the nutrients available to cheatgrass in order to eradicate it. Reducing cheatgrass, would reduce the amount of herbicides need for control. The study would reduce phosphorous and potassium and nitrogen in the soil. Questions asked by several commissioners, to which Steve responded. No outside matching funding requests have been sought. There has been \$1000 in match services. Chuck Masters asked about the level of interest by growers. Cheatgrass is major problem in western US, everywhere free rangeland exists. Question was asked about why not do this as a greenhouse experiment, instead going to a field trial directly. Eradicate cheatgrass from crop edges, road edges, etc.

**11:15 04AN032-Apples**

**David Horton, USDA**

The proposal would focus on western flower thrips moving among native habitat plants. Thrips are small insect that feed on flowers and moves into apple blossoms as they begin to bloom. Eggs are deposited on to developing fruit, causing bad spots on fruit, diminishing the value of product. Carzol is most effective product at this time. Previous year had different funding. Difference from last year to this year includes looking at a more narrow range for use of chemicals. Andy Jensen asked about coordination between Doug Walsh and David Horton for the near same projects. Both responded to show the substantial difference between their 2 funding requests and scope of their projects. A long term goal is to give growers the recommendations they need to spray at the perimeters of their fruit crops.

**11:30 04AN036-Potatoes**

**David Horton, USDA**

Potato Commission asked him to look at wireworms in potatoes. Grape growers are beginning to see the problem as they are moving into vineyards. Wireworms are subterranean and are larvae of click beetles. There are a variety of problems plaguing growers in controlling the pest. Horton proposes to use bait before planting to predict damage at harvest; and a variety of methods once planting has occurred; damage occurs at the end of the year, with wireworms going into tubers at end of growing season. Horton will be working collaboratively with an Idaho lab who will provide him with potato clones they think will not be susceptible to wireworm.

Most of funding will be for baiting portion of project. Ben Barstow asked how long wireworms stay in soil. Response was 2-3 years. Moxee USDA-ARS farm is site of field trials.

**11:45 04AN034-Urban Areas**

**Michael E Scharf, USDA**

**Art Losey, Presenter**

Odorous ants are tiny ants that get into houses and are the hardest to control of all ants. They have nests, are poisoned and break off to create more nests. Only 2 places in the US are doing any research on this problem. The nature of these pests is not understood so more research needs to be done. Current control is perimeter treatment and drilling and filling wall voids. Request is to be able to come up with another method of treating and eradicating the pests. Hope to fund a study to find a product that will actually kill colonies. Andy Jensen asked about the food preference study as a bait source. In urban situations, baits are specifically controlled at different times of year. Chuck Masters asked about why they haven't asked for funding from several other sources. Response was that many companies are looking for the research supporting the use of their chemicals. Kurt Volker asked for clarification regarding the size of the problem. Odorous ants are as difficult as carpenter ants, but they exist as a much larger volume and continue to come back much more than other ants. Herb Teas commented regarding the financial page for the budget, specifically, the footnotes don't link to the match from Purdue. Dr. Brown responded with an explanation.

12:00 – 12:30 Recessed for lunch (at hotel)

**12:30 04AN035-Vegetable crops**

**Lindsey duToit, Presenter**

Verticillium wilt is increasing in abundance in Washington state, particularly in Western Washington, specifically Skagit Valley. This study will examine the host range of wilt and the effectiveness of soil fumigation. The researchers are asking for matching funds from WSCPR to match 3 other funds. Question was asked about seed treatment as an option. Wilt is a systemic fungus, so fumigation or hot water will not eradicate the fungus.

**1:00 04PN033-Scotch Spearmint/Field**

**Rick Boydston, USDA**

**Doug Walsh, USDA, Presenter**

The topic of this proposal is conduct field efficacy trials for winter annual weeds. Herbicide use in mint has gone up substantially in the last 8 years. Spearmint is 15-20% of total WA acreage – scotch spearmint. Award letter to Rick Boydston to include a change to Item 6 on page 2, under description of problem: the last sentence should be dropped regarding hand weeding exposure being harmful.

**1:15 04PN037-Onion Seed**

**Lindsey duToit, WSU**

This proposal is for a second year trying to manage Botrytis on onions. Seed transmission trials have been going on. Collaborating with another research farm for additional trials—New York and Michigan. Kurt Volker asked how long she anticipates working on this project. Lindsey stated it's very important to continue to get final on seed transmission trials. Bob Berger asked about funding timeframes. Herb Teas clarified that funding was for a cycle. Botrytis occurs in storage, not in the ground. It takes 2-4 months to create rot. Bob Berger feels her timeline for funding should reflect 12 month timeframe.

**1:30 04PN038-Peas and Lima Beans**

**Philip Hamm, OSU**

The proposal deals with white mold. The mold is becoming a big problem in peas. This problem is caused somewhat by irrigation situation and rain. There is no really good product that works well. Omega and Endura has just come on the market and he will try them on these two crops as a trial with fungicides to control mold and spore infection. Ben Barstow asked the question about an extension component. There was discussion about Endura having a complete label, but it doesn't think it has a registration yet. Kurt Volker didn't see where biological fungicides are included in the project. Hamm will strike the last half of the sentence. Bob Berger noted that Objectives, item 3 doesn't specify a dollar amount with it. Jay noted differing dollar amounts for matching funds as \$5500 vs. \$9000. However, the correct version is request is for \$9000 (75% new \$, 25% old \$); but \$5500 is the match. Information was shared that white mold isn't a problem with production green peas. Hamm stated the industry wouldn't allow him to do lima beans without peas because of the problem.

**1:45 04PN039-Grass Seed**

**Philip Hamm, OSU**

The proposal is a continuation of research on grass seed diseases. The main diseases are stripe rust and powdery mold, although choke, rust, and ergot are increasing problems. Objectives of the study: site trials, how to best use pesticides, disease control and resistance, look at rust issue for identification.

**2:00 04PN040-Carrot**

**Philip Hamm, OSU**

**Todd Crosby, Co-presenter.**

Pythium is a fungus causing a large problem-pits, forking or stubbing in carrots. The most used fungicide in California is now becoming resistant. An additional benefit of this project would be good for peas. Kurt asked where trials will be done-Hermiston, Alderdale and around Pasco or North of Pasco. Ideal test sites would be where carrots have been grown in the past.

**2:15 04AN041-Tree Seed Orchard**

**Chuck Masters, Weyerhaeuser**

This proposal involves the douglas fir cone gall midge in forest nurseries. The larva comes from forest floor, where it grows up and then flies to Douglas fir, lays eggs in or near flower. The maggot forms gall, damages seed and cone through summer. Proposal is to find a way to take

away the over wintering habitat. This is a continuing funded proposal from 2002. Operational trial for sweeper treatment this fall was completed. Pollen cone bud treatment results were completed. Asking for funding to complete operational dollars- partial retreatment for Sequim location; pheromone traps, collection of cones next fall to assess the number of cones that have been galled and the number of seeds that have been filled; labor dollars connect to cone collection, assessment; turf sweeper repair. After the nursery floor is swept by the sweeper, they need to look at damage reduction by midge emergence. Matching funds are from several organizations previously involved. Matching funds include scientific evaluation of pheromone data. Art Losey asked if there needs to be modification to an orchard to make it work. Chuck Masters stated there are orchards that will have problems manicuring and for some it just won't work. Alan Schreiber asked if this is a native or introduced pest. Chuck Masters responded they are native. Andy Jensen asked if the pheromone is used on males only. Masters responded to the affirmative-delta or wing traps. Bob Berger asked why Washington DNR wasn't included. Chuck Masters' response was that DNR had several problems and they had actually provided funds earlier, so it was not included this time. Ben Barstow asked where everything that's vacuumed up goes. Masters suggested several ideas they are considering. Eric Johanson asked about ranking prioritization regarding protection of human health. Masters' response talked about drinking water run off. Kurt Volker asked who gets paid \$52 per seed analysis. Chuck Masters stated US Forest Service gave him that estimate, however, BLM gave a smaller per seed analysis cost. Kurt Volker asked who the entities are that want to minimize the potential risk. Masters stated that it is Washington Toxic Coalition, Dept of Ecology, to name a few.

### **2:30 04PN042-Asparagus**

#### **Alan Schreiber, ADG, Inc.**

This proposal was funded last year. Proposal this year was reduced by \$7000. European asparagus aphid-devastating to asparagus industry. Limitations have been added to application procedures for the only herbicide known to work. Weed control of asparagus is a problem-puncturevine, field bindweed and groundsel are difficult problems to control. Match funding will come from WAC. Chuck Masters asked if there is a limitation of aerial application of dimethoate. Alan Schreiber responded there is no limitation. Kurt Volker asked about public research of asparagus. Schreiber stated that WSU has very little involvement with asparagus research. Bob Berger asked about project dollars. Project dollars do not balance. Jay Schafer asked about continued increases in minimum wage rates causing the collapse of the asparagus industry. Dr Schreiber spoke about a request for state funding. The aphid is thought to only be a problem in arid, dry lands, so is not thought to be an issue for eastern part of U.S.

### **2:45 04AN043-Potatoes**

#### **Ekaterini Riga, WSU**

Tobacco rattle virus causes serious damage to potatoes and growers' profits. Identification of this virus prior to growing potatoes is important. This is a multi-year project and is now in the final stages. Potato Commission is supporting this proposal as well. 3% of acreage is infected with the virus and it's spreading.

3:00 15 minute break

### **3:15 04PN044-Juice Grape Vineyards**

**Doug Walsh, WSU**

National organization for juice grapes gave thrips a high priority of juice grapes, specifically western flower thrips. Proposal will target pesticide application at field trial. A large insecticide trial will occur close to harvest. Assessment of thrips sampling techniques will be used. Evaluation will occur where exposed grapes are submitted with high concentration of thrips and then treated with pesticides. Thrip feeding injury to fruit will be evaluated through several means. Research sites are furrow irrigated.

### **3:30 04PN049-Grass Seed**

**Dan Ball, OSU**

This project is a joint effort with Phil Hamm of OSU and is a continuing project. The project focus is on the Columbia basin production area. Objectives of proposals: continue herbicide trials in established grasses by testing at different times in different sequences; looking at seedling grasses for herbicide tolerance; disseminate information and technology transfer. There is a field tour each year for growers. Bob Berger noted there were 2 questions deleted in which there should have been information whether the project has been previously funded. Response was yes, \$20,360 from Commission. This is the 5<sup>th</sup> year of funding for this project. The question about approval by his organization's fiscal agent was answered. Question was asked about Objective 3 needing funding dollars. The response was that no dollars are necessary. There is support from Columbia Basin Grass Seed Council.

### **3:45 04PN046-Barley**

**Dan Ball, OSU**

This is a new proposal which will be reviewed by Washington Barley Commission and Oregon Grains Commission. It is hoped these Commissions will provide matching funds. The research is interested in looking at herbicides for winter barley. Several commercial companies are interested in seeing malting barley in the Northwest. A suggestion was made to call several brewing companies regarding additional funding for his proposal. A potential match was identified if the Barley Commission gives funding of \$4500. With the funding, they will be able to do the malting operation, grain analysis, etc. *<\*\*\*Add \$4000 to proposal project status page to include matching funding.\*\*\*>*

### **4:00 04PN047-Cranberry**

**Kim Patten, WSU**

Insects, Weeds, Disease related to Cranberries. The project received funding last year. This year's requests funding for specific pesticide and weed control. There are still some weeds that are not under control. The commodity group has a match on this, but are looking for matching funds from WSCPR. A question came from Ben Barstow about using vinegar as a means of controlling weeds. Patten stated it requires a great volume of the product to see any change and efficacy is a question. Herb Teas wondered what the vinegar does to the cranberry plant. Patten stated nothing happens, depending on when it's dosed and leaves must be cleaned off. When asked, Patten stated the cranberry industry is growing, with some turmoil, but is still very vital. Chuck Masters asked for further information regarding trials and evaluations. On farm trials will

be conducted for multiple herbicides, multiple times, replications, and multiple sites. Ben Barstow asked how many trials-10 fungicides, 20 herbicides, and 10 pesticide trials. Jay Schafer felt there are a lot of projects within the same project. Alan Schreiber asked if WSU is going to have any presence in the cranberry trials and industry. Patten has made the commitment for the life of the project.

**4:15 04PN048-Oyster**

**Kim Patten, WSU**

This request is a continuation of a project evaluating insecticides for control of burrowing shrimp. The researchers are working with formulation of binding agents; feels they are getting close to what works. The burrowing shrimp problem must be resolved or industry will go away. Sharing a grant and trying to develop long term funding that will take them for next 8-10 years to resolve this. Kurt Volker made a comment that the oyster industry's participation has diminished somewhat. Patten stated the same dollars are being distributed over a larger group of projects. Growers support the project completely. New entity has not given any support for this project thus far. Patten will be talking to his legislator. IPM Coordinating committee has reviewed project.

**4:30 04PN045-Drainage Channels**

**Kim Patten, WSU**

Parrot feather is a significant aquatic weed in Western Washington. Dept of Ecology wants research done. No major research has been done to control the pest. A 2 year plan may be necessary to eradicate. Spraying doesn't show whether it's floated in or contaminated from other sites. Trials will have to be done with large sections using aquatic herbicides. Surface and sub-surface chemicals will be used in trials. California weed control people are not doing anything major on this problem. Alan Schreiber asked about collaboration with Mark Systema from Portland State Univ. Kim Patten stated he is working with Mark Systema

**5:00 04PN050-Timothy Hay**

**Doug Walsh, WSU**

Kittitas County hay growers and suppliers sponsor Dr. Walsh request to work on two spotted spider mites. Kittitas County has a supply of timothy hay that's being purchased. Poor color due to mite damage has an effect on sales price. The spider mites have caused problems. Poor application of known pesticides has created a considerable problem with the mites. Efficacy data on control of spider mites comes from eastern Nevada. Looking for alternatives to known pesticides. Efficacy trials will be done, color of timothy hay will be reviewed at end of trial for improvement.

**5:00 04AN051-Small Grains**

**Robert Gallagher, WSU**

This request is for equipment innovations for better weed management of direct seed systems. The request proposes hybrid system, such as Phoenix Rotary Harrow. It is felt this is a better option than other means of controlling weeds, disease and residue. Asking for funds for a prototype of \$14,000; \$14,000 for trials-mainly labor. Ben Barstow expressed concern that the proposal didn't include anything regarding wind erosion due to water and tillage. Kurt Volker

asked what a commercial harrow would look like as well as the implications of the operation of such large-scale machinery. Kurt Volker gained clarification regarding the number of times the experiment will take place, as well as the time of year.

### **5:00 Meeting Adjourned for Day One**

**\*\*\*\*A change to the RFP Cover page needs to occur so that all contacts include information on their name, address, phone number, cell phone number and email address.**

### **Day Two WSCPR Meeting January 13-14, 2004**

8:00 Call to Order by Herb Teas. Minutes at this point have not been approved. Changes have taken place. Discussion was held regarding the type of meeting notes taking place, as well as the depth of meeting minutes. With the changes requested yesterday, minutes will be reworked and presented for review at next meeting.

#### **8:05 04PN052-Red Raspberry Lynnell Tanigoshi, WSU**

This proposal is a continuation of work with the Red Raspberry Commission on insects and mites. Tanigoshi is looking for selectivity in application of insecticides. He feels they have black vine root weevil under control. Project is learning how to use the materials, integrating other materials for use with other pests such as western raspberry fruitworm. The project request is for cost of technician and summer help. The proposal will also look at optimizing time of applications a bit better. This work will take place from Vancouver to Whatcom County. Andy Jensen asked how often raspberries are treated for aphids. Tanigoshi stated it depends on weather.

#### **8:15 04PN053-Christmas tree, Nursery Gary Chastagner, WSU**

This proposal is a continuation from last year. Sudden oak death is a disease primarily located in California. Number of changes has occurred that have changed things: a retail nursery in Seattle discovered the pathogen, as well as one in Oregon. Two trees have been identified as hosts, Douglas Fir and Grand Fir. The request for this year's proposal is to fund residual work and compare fungicides; do work to determine the effectiveness of fungicides; wetting agents. Matching funds will come from Christmas tree industry.

#### **8:30 04PN054-Forest Nursery Robert Linderman, ARS**

This is project, dealing with root diseases is a continuation. In 2002 the study looked at new chemistries. In 2003, we looked at biological materials on the market. Both studies were completed. This proposal will look at 2 fungicides to see which look good and how they can be

combined to be even better. Suggestion was made to request funding from Syngenta. Unique study being done that they feel no one anywhere is or has been doing.

#### **8:45 04PN055-Cabbage Seed**

**Tim Miller, WSU**

Weed control is very critical to the growth of cabbage. The request proposes to test Spartan just before or just after transplanting. Dr. Miller plans to look at 4 different seed lines growing in greenhouse and transplanting in the spring. He will use 2 formulations of Spartan to assess the damage that may or may not occur. Match of \$1500 has been committed.

#### **9:00 04PN056-Strawberry**

**Lynnell Tanigoshi, WSU**

The Strawberry Commission has committed matching funds to conduct work on the rough strawberry root weevil and they are hopping some help to fund his project. There is a need to get material beyond canopy to the root zone so the larvae can be controlled. Weevils start showing up in the 3<sup>rd</sup> or 4<sup>th</sup> year of growing. This project looks to use the tools they now have to work to eradicate the larvae instead of working with the adult weevils. The project's goal is to learn more about the root weevil through this proposal. Ben referred to the first objective and collecting adults. They are all females. They don't fly, they just walk.

#### **9:15 04PN057-Apple**

**Chang-Lin Xiao, WSU**

Post harvest disease occurs in apples in storage, causing rot. The old tried and true drenching methods are still allowing rot. Waste water management at the packing houses because of drenching has been an issue with EPA. New chemical out that can maintain apples longer and keep them firmer longer. This proposal is to find effective fungicides to help eradicate gray mold post-harvest. This trial will be conducted on 2 varieties of apples.

#### **9:30 04AN058-Stone Fruit/Cherry**

**Doug Walsh, WSU**

Thrips were identified in 2002 as a high priority pest in soft fruit. Flower thrips trials are being conducted. This trial targets the orchard floor and late season feeding by thrips. The researcher will look at cover crops on orchard floor to see how thrips are building up. Several insecticides will be applied to the orchard floor to see if it will reduce infestations in the canopy. Funding request is to fund student labor. Kurt Volker asked about funding student for next 2 years. Doug Walsh's response is that WSU may agree to a match, if certain criteria are met. Bob expressed concern there is a lot of money in travel, but no detail. Doug's response was several trips will be made to Wenatchee and there will be several local trips. Andy Jensen asked about indigenous plants that will be planted. Doug's response was rabbit brush, sagebrush and a variety of other plants.

**9:45 04AN059-Red Raspberry****Martin Nicholson, WSU**

This proposal is a continuing request for funding for a raspberry harvester. The match is from the Red Raspberry Commission. Harvester is used to harvest trials at research locations. Cost of harvesting was reduced for staff by purchasing harvester. Three trials will be conducted using the harvester. The trials are quite large. Harvester is also used for 2 acres of raspberries at the Vancouver research station. Rationale for continuation of proposal-could only make a commitment of one year at a time and WSU was continuing to use the harvester in the spirit it was intended, the likelihood was good, it would continue to be funded. Question was raised by Bob Berger to encourage WSU to look at refinancing to a lower rate.

**10:00 15 minute Break****10:15 04PG060-Asparagus, Various Crops****Vince Hebert, WSU**

GLP Analytical Program needs quality assurance in the lab. To maintain this program, training is required, critical to the ongoing viability to the program. Outside agencies conduct audits which look for training. These audits occur on a regular basis and there is a need to keep training up to date. This training would benefit other WSU staffers who are in the field, such as Prosser and Wapato. Currently, the lab has potato, asparagus and blueberry trials that are either in process or will be underway soon. Question asked about why there is no matching funding for this. GLP funding does not come from WSU, even for training dollars. There are formal standards that must be met through audits that ensure compliance to allow the lab to continue functioning. Chuck Masters has concerns that WSU should be funding this and wonders if we're going to then have to continue to fund ongoing training. Ben Barstow wants to know what benefits will be derived from a training in Reno. Response is that their person receives quality assurance training to keep her up to date for any external audits that are conducted. The affect of not getting funding is that audits will show training is not up to date which will make research submitted to be viewed as less valued.

**10:30 04AN061-Tree Fruit****Astrid Hedegaard, Private**

She is a management consultant for orchardists who works with organic and conventional growers. The growers are looking for fast economical way to deal with pests. Hedegaard feels she has come up with a way of controlling weevils that she would like to share with others. She reviewed 6 different means of dealing with root weevils. Proposal is to request funding at the lab level, look at various nematode species, those that are most effective, 2-3 species, targeting timing, temperatures, long term establishment to eradicate weevils. Clarification was given on blocks, plots, and subplots. Concern was shared that there is nothing definite about what is going to occur in project prior to funding. The research project will be done in Vantage. The pest problems appears to be variety specific and occurs in a localized area. Herb Teas asked the question about specific information about other research that has been conducted. A discussion took place regarding Auvil Orchards involvement. No cash match were listed, only services.

**10:45 04PN022-Potatoes**

**Lee Hagwiger, WSU**

**Alec McErlich, Presenter**

The project involves the use of a novel copper formulation together with a chitosan sticker to manage late blight in organic potatoes. This product combination allows a much lower rate of copper, avoiding potential problems with copper build-up in the soil. Kurt Volker referred to lack of changes from original submission to resubmission. He questioned where the organic potato acreage is. Alec McErlich responded they are on the east side of the state. Volker pointed out that the proposal cover page was not completed as it should have been. Project Summary was not completed as requested. Information format was not utilized. When information is not complete, Volker feels research may be suspect. This proposal is to conduct additional field data. Project description should have some experimental description. Question was asked about \$2,000 equipment—reply was for lab equipment. Late blight is a production limiting condition on potatoes, badly in western Washington, and somewhat less in eastern Washington. If this copper chitosan product works, production costs would be lower. Organic potato markets for eastern Washington production would not increase, but production costs would be lower. Concerns were raised about the value of this proposal, the amount of research that has gone into how good the product is. Ben Barstow stated he felt these trials would be better conducted as part of a broader fungicide trial.

**11:00 04AN063-Urban**

**Tonie Fitzgerald, WSU**

The proposal is for training for a commercial tree fruit, landscape, volunteer program for urban population. Education project curriculum is meant to train pest consultants, master gardeners, etc. to understand pests and pest management tactics. Training would help with misdiagnoses of pests and diseases in Spokane County. Curriculum would be developed for local and on the spot education, as well as certification training. The program would hope to develop online and distance learning capabilities. The training would be for non-pathological problems vs. virus infections. In-kind volunteer services are understated in the project. This is a new component within the program. Question was asked why we should fund this project when every county horticultural extension should be doing this. Tonie Fitzgerald's response is that the training opportunities already exist, her background and skills are what are needed, she has the resources available to her and she's willing to share it in the Northwest. She's ready to have the curriculum written. Bob Berger brings up the incorrect hours from 100 to 1000 to correct the dollar extension. Question asked if Spokane is duplicating Puyallup diagnostic center. Tonie's response was that they don't have the equipment, staff and aren't really set up to deal with commercial operations.

**11:15 04AN064-Vegetables/Potatoes**

**Terry Miller, WSU**

The proposal is a continuation of funding from last year. Project is attempting to develop sustainable aphid management system in Washington through planting of in-field insectaries of various perennial and annual plants. Green peach aphids are primary focus of research. Have good understanding of several plants and associated insects and now would like to research a few

other plant species. One issue is the need to develop an agronomic method to manage the insectaries. Alan Schreiber asked about the length of time this project has been funded. Funding has been going for 5 years. Presenter felt this project is only at its 2<sup>nd</sup> year because it's a whole array of organic vegetables, not just potatoes as in the past. Question was posed to Terry Miller regarding the benefits to society and the grower within 5 years. Alan Schreiber sees this can work in an organic system, but can't see it working in a conventional system. Kurt Volker stated he could see it working in the conventional system. Ben Barstow stated that a statement is included in the proposal that organic agriculture/production are harmful to human health and asked for clarification. Terry Miller responded in the positive.

**11:30 04AN065-Hops**

**Cynthia Ocamb, OSU**

**Ann George, Presenter**

Hop powdery mildew reported in Washington for the first time in 1997. Downy mildew is the other disease problem in hops in this area. Control options are necessary. This is a continuing project. Ann George discussed some of the successes and chemicals that have been used. Research is underway to eradicate this pest. Downy mildew problem is now ready to go out of the lab and into field trials. Efficacy work has been done on this. Match dollars are coming from Hops Research Council.

**11:45 04AN066-Potatoes**

**Doug Walsh, WSU**

This proposal deals with learning about the biology of seed corn maggot infestations in potatoes. Project funding is matched with funds from the Washington Potato Commission. It would provide staff to go into fields to locate seed corn maggot infestations. "Look and see" project in potato fields. There has been no research done in this area. The industry knows little or nothing about this. The top insect research priorities for the Washington Potato Commission are wireworms and seed corn maggots. Collaboration will occur with researchers at WSU to work on a treatment.

**12:00 – 12:30 Recessed for 30 minute lunch break**

**12:30 04PN067-Dill**

**Alan Schreiber, ADG, Inc.**

**Carl St Hilaire, Presenter**

The project goal is develop broadleaf and grass herbicides for dill grown for oil. 95% of dill is run for oil for pickle factories. Most of the competition is from Canada and Eastern Europe. Tight economics in dill...general decline over the last few years. Maximum yields are important. Maintaining high yields are suffering due to weed control. Current herbicides are not working in their fields on broadleaf. Dill is relatively non-competitive with weeds, particularly early on. Salary dollars go to research technician and person growing crop and putting trials out.

**12:45 04PN068-Pea seed**

**Alan Schreiber, ADG, Inc,**

**Doug Walsh, Presenter**

This project will focus on control of white mold in seed peas. Efficacy work required by IR4 for registration. Pea seeds are grown for the rest of the country. A small portion of the pea seed stock is for eastern Washington.

**1:00 04PN069-Bean seed**

**Alan Schreiber, ADG, Inc.,**

**Doug Walsh, Presenter**

The purpose of this trial is to look at insect control in bean seed. Efficacy work required by IR4 for registration. There's been little work in this area.

**ELECTIONS:**

Herb Teas opened the floor for elections and nominations. For position of Chair: Ben Barstow nominated Chuck Masters. Bob Berger seconded. Ann George nominated Kurt Volker. Bob Berger seconded the motion. A written vote was held. Kurt Volker elected.

Kurt Volker nominated Chuck Masters as Vice Chair. Ben Barstow seconded the motion. Ann George moved for a unanimous vote of Chuck Masters. Motion seconded. A verbal vote was held. Chuck Masters was elected unanimously.

Ann George will continue as Treasurer.

Chuck Masters moved that Bob Berger remain on executive committee in Past President position. Jay Schafer seconded. A verbal vote was held. Bob Berger was elected unanimously.

**CONCLUDE REVIEWS/RANK PROPOSALS/AWARD FUNDING**

Kurt Volker moved that all projects on the list numbered 1 through 34 be approved for funding. Ben Barstow seconded. Herb Teas opened for discussion any projects below the line (see attached ranking sheet).

Discussion on Proposal 04AN062, the alfalfa seed project: Eric Johanson noted that the project description was not clear as to what was new about this work. It wasn't clear what the project was contributing. Kurt Volker agreed with Johanson. He further stated studies have been made ad infinitum and thinks there was nothing there that hasn't already been studied. Ben Barstow ranked this low and felt it wouldn't do much for the growers. Andy Jensen felt the project had a fair amount of support from the growers, which should be considered.

Proposal 04PN048, Oyster: Chuck Masters had questions on research priorities and if IPM Committee had reviewed research proposal. It appeared they had not. Bob Berger was asked for

clarification about the Committee's involvement. Washington Toxic Coalition had settled the MOU. There may be a need for a re-signing of all parties for a Memo of Understanding.

Chuck Masters feels it's a major error. Pass with resolution of error, or with signatures of IPM Coordination Committee. Motioned to remove 04PN048 from the blanket approval. Seconded by Ben Barstow. Verbal vote, motion carried.

Herb Teas states that with no further discussion of projects listed as 1-34 and a motion still on the floor, he called for the final vote: verbal vote, motion carried..

Additional discussion on Proposal 04PN048, Oyster:

Bob Berger motioned for acceptance contingent upon approval of committee of IPM. Motion 2nded by Chuck Masters. Verbal vote, motion carried.

Proposal 04AN009, Potatoes: Potato Commission has funded the project in past years. When all potato projects are ranked, this project is ranked the lowest of the 7. Andy Jensen didn't feel this project will be funded by the Potato Commission. It was resubmitted this time, too broad, nebulous project without real direction. Questions came up about collaboration by Ann George. Andy Jensen felt the scope of the projects were entirely different. Jensen didn't feel this is a priority research project that is long term and has no real direction to it and can't strongly support. Ben Barstow felt it should have been noted in his proposal that it was a project that is exploratory in nature. Kurt Volker suggested resubmission if he gets funding from Potato Commission and tightens up cover sheet. Alan Schreiber cautioned against requiring funding from a specific segment of the industry, just look for a match from somewhere. No further discussion.

Proposal 04AN034, Odorous house ants: Ann George wondered if we were talking about other funding sources. There were items that were not shown to have value, but need to be captured.

Bob Berger motions to fund this project. Ann George seconds. Verbal vote, motion carried.

Proposal 04PN046, Barley: Art Losey had questions regarding barley project. Project is for winter barley, but most varieties grown here is spring barley. Ann George gave the presenter a contact for additional funding for this project. One of the major barley growers had a failure and the brewing community would like to move their interest into the NW. The Commission suggested resubmission when he has gotten further in the process and financial support.

A motion is made by Ann George that we deny funding unless there is some certainty from Bayer about continuing this product and from brewing community for pursuing this commodity. Kurt Volker seconded motion. Verbal vote, motion carried.

Ben Barstow cautioned that Axiom is not a particularly good herbicide in winter wheat in Washington. It's primarily an Italian rye grass. He would vote to deny funding.

Proposal 04PN050, Timothy Hay: Ann George asked to hear discussion on low voters. Timothy hay growers are extremely interested in this project. Cost of controlling mites is low versus the income. Art Losey stated he rated low because of growers' continuation of using supracycle.

Motion by Kurt Volker to approve. Seconded by Ann George. Verbal vote, motion carried.

Proposal 04AN063, Urban: Art Losey stated he had problems with the project. Ben Barstow shared his concern about what the half time position would be doing. There was confusion regarding hands on training vs. writing curriculum. Bob Berger shared his concerns to say her primary resource is the Master Gardener program. Most Master Gardner's are older and may not be able and/or willing to get the additional education in a retirement setting. Ann George clarified the scope of the project by stating that training is the final product, but curricula would have to occur first. Goals of the project were too broad. Kurt Volker suggested we deny. Chuck Masters agreed with Kurt Volker. Alan Schreiber commented that he's concerned about funding training programs and curricula and the precedent it sets. Ben Barstow agreed with Schreiber's statements.

A motion was made by Chuck Masters to deny funding. Art Losey seconded. Verbal vote, motion carried, with one nay. No invitation to come back.

Proposal 04AN061, Tree fruit: It was not felt to be a priority for tree fruit. Art Losey was concerned about the pest and it being local. Ben Barstow's concerns were about the specifics of how to do the project. It may be a fascinating project, but not a known concern. Herb Teas felt that all Auvil was putting in was in-kind services instead of financial services. Eric Johanson commented about talking to other people about the same problem presenter has found.

A motion was made by Ann George for denial of budget, seconded by Dan Robinson. Verbal vote, motion carried with one nay. Invitation to come back with documented information about more demonstration of the problem.

04PG060, GLP Training: Art Losey mentioned the 4 projects pending. There was no matching funding from any sources. WSU has no training dollars for this type of training. Commodity groups were never asked for funding dollars. Alan Schreiber didn't feel those groups would have helped fund. Art Losey talked about audits and whether ongoing training was there. Suggestion was made by Ann George for adding funding to any requests to assist with operating capital. Kurt Volker asked if there were any other GLP labs or technicians at WSU. Presenter stated no. Alan Schreiber stated there is no other GLP labs for pesticides at WSU. Eric Johanson suggested that if you do the research you have to have the training. Consider funding once, but in future costs must be included in charges. Chuck Masters was unclear why the training can't be done internally. Alan Schreiber stated there is no one qualified at WSU to conduct training. Bob Berger agreed with Chuck Masters, with one exception. Training is half a day, two groups.

A motion is made by Bob Berger to not fund GLP training. Seconded by Chuck Masters. Verbal vote, motion carried. Invitation to resubmit will not be extended.

Proposal 04AN031, Rangelands, dryland crops::

Kurt Volker motioned to deny funding;, Chuck Masters seconded. Verbal vote, motion carried. Invitation to resubmit will not be extended.

Proposal 04PN022, Potatoes: Ben Barstow stated that any of these projects could have a researcher assigned by WSCPR for further study. Alan Schreiber stated there is a different researcher to do trials, if there is a need. Schreiber and Jay Schafer suggested dropping these into a regular late blight screening program. Ben Barstow mentioned that the proposal does not stipulate that it has to be done as strictly an organic study. Kurt Volker felt it needed to be in a screening trial.

A motion is made by Kurt Volker to deny funding and suggest that it goes into a screening trial. Seconded by Art Losey. Verbal vote, motion carried. Invitation to resubmit will not be extended.

Proposal 04AN009, Potatoes:

Motion made by Ann George to deny funding. Seconded by Chuck Masters. Verbal vote, motion carried. Invited to resubmit.

11 voting members present when voted on proposals. A quorum was present.

Total Funding dollars approved vs. budget – \$357,228. Old mandate is \$180,000, new mandate is \$168,000.

Next meeting will be held March 9 in Ellensburg. Thanks were given to Herb Teas on a good job. Information will be forthcoming on possibility of having meeting at ADG facility in July, possibly the 13th..

May 12 meeting will be located in Moses Lake.

October meeting will be held October 26/27 at Yakima.

## **ADJOURNMENT**

Chair moved to adjourn, Bob Berger seconded. Moved and carried.