



Two-Day Intensive Workshop

For Growers - Field Consultants - Fertilizer Suppliers

**Field-Proven Approaches To Season-Long
Crop Nutrition Management For A Better Bottom Line.
For You, Your Company & Your Clients!**

When: January 15 and 16, 2018

Where:



**Shoshone Bannock Hotel
777 Bannock Trail
Fort Hall, Idaho 83203**

Registration includes:

- admission to two full days of educational sessions;
- lunch, snacks, and refreshments;
- workbook (full presentations and resources); and
- a tote bag.

[Here's a sneak preview of the abbreviated version of the workbook.](#)

Offering 12.5 CEUs for Certified Crop Advisors.

[Click here to Register](#)

Presented By



TPS Lab

Your Crop's Dieticians®

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WORKSHOP SCHEDULE

DAY ONE	Time	Presenter	Topic
	8:00 a.m.	◆◆◆	Check In
	8:30 – 9:45 a.m.	Noel Garcia, CCA	1 – SOIL TESTING <ul style="list-style-type: none"> • Why, When and How Often to Do It • What and Where to Sample • How to Sample and Prepare Samples For Shipment to the Lab • Differences in Soil Testing Methods • Interpreting Lab Numbers • Considerations When Writing Recommendations • Importance of Soil Nutrients • Nutrient Interactions Between Themselves & Native Soil Chemistry
	9:45 – 9:55 a.m.	◆◆◆	Break
	9:55 - 10:55 a.m.	Dr. Larry Zibilske	2 – REVIVING SOIL BIOLOGY <ul style="list-style-type: none"> • “Habitat” Concept • Relationships Between Populations • Testing for Biological Activity • FUNCTIONS: Why Biology Is Essential for Plants • Nutrient Cycling - Disease Buffering Effects
	10:55 – 11:05 a.m.	◆◆◆	Break
	11:05 a.m. – Noon	Dr. Larry Zibilske	3 - USING ORGANIC MATTER TO ENHANCE CROP NUTRITION Compost + Sulfur: A Winning Combination <ul style="list-style-type: none"> • Effects on Soil Structure and Tilth • Effects on Nutrients & Water • Effects on Microbial Population • “Biological Buffering” • Nutrients in Organic Matter • Nutrients Added to Compost • Test Results: Adding Sulfur to Compost
	Noon – 1:00 p.m.	◆◆◆	Lunch
	1:00 – 2:30 p.m.	Noel Garcia, CCA	4 - CROP NUTRITION: Getting Nutrients into Plants Plant Nutrient Uptake and Efficiency of Uptake: Using Less Fertilizer & Water While Getting Better Crop Results. <ul style="list-style-type: none"> • How Native Soil Chemistry & Physics Affect Nutrient Uptake • Fertilizer Efficiencies based on source • Micronutrient Chelation: EDTA, Citric Acid, Amino Acid, Humic / Fulvic Acids, etc. • When and How to Apply Them • Nutritional Cures for Non-Nutritional Problems: SILICON
	2:30 – 2:40 p.m.	◆◆◆	Break
2:40 – 4:00 p.m.	Dr. Larry Zibilske	5 – Unifying Biological and Chemical Sources of Fertility The Best of Both Methods <ul style="list-style-type: none"> • Microbial Inoculants: Types, Expectations • Using Microbes and Chemical Fertilizers Together • How Microbes Promote High Nutrient Use Efficiency 	
4:00 – 5:00? p.m.	Garcia & Zibilske	Informal Questions & Answers for as long as necessary	



WORKSHOP SCHEDULE

	Time	Presenter	Topic
D A Y T W O	8:00 – 9:15 a.m.	Noel Garcia, CCA	6 – ELEMENTS OF PLANT NUTRITION <ul style="list-style-type: none"> Plant Nutrients and Their Functions Macro – Micro – Trace Elements & Their Chemical Compound Forms Prevention of Hidden Hunger With <i>Ask The Plant</i>® Difference between Petiole (Sap) and Leaf Analysis Control & Prevention of Disease & Insect Pressures With Nutrition
	9:15 – 9:25 a.m.	◆◆◆	Break
	9:25 - 10:40 a.m.	Noel Garcia, CCA	7 - POTATO NUTRITIONAL REQUIREMENTS <ul style="list-style-type: none"> Plants' Ever-Changing Nutritional Needs When Is Too Much & When Is Too Little? Timing Is Everything Common Errors In "Conventional Wisdom" On Fertility Planning Does Water Use Efficiency Have Anything To Do With Plant Nutrition? Helping Weather-Proof Your Crop Why What's In Your Plants Will Be Different From What's In Your Soil Maximizing Your Crop's Genetic Potential & <i>Decreasing Maturity Time (Really Important If You're Facing A Potentially Short or Difficult Growing Season)</i> How Your Soil Test Calibrates To What's Actually In Your Plants Plant [Sap] Analysis Interpretations & Plant Nutrition Standards Getting Plants Off To A Healthy Start With Proper Nutrition Achieving and Maintaining Season-Long Balanced Plant Nutrition What Season-Long Balanced Plant Nutrition Does For You
	10:40 – 10:55 a.m.	◆◆◆	Break
	10:55 a.m. – Noon	Noel Garcia, CCA	8 - FOLIAR NUTRITION ON POTATO PLANTS <ul style="list-style-type: none"> How to Use Foliar Sprays Why, What and When To Apply Can Chelated Products Be More Effective In Foliar Sprays? What About Alternative (Non-Conventional) Adjuvants?
	Noon – 1:00 p.m.	◆◆◆	Lunch
	1:00 – 2:00 p.m.	Dr. Larry Zibilske	9 - WATER – A Source of Many Problems <ul style="list-style-type: none"> Declining Water Quality and Availability? Watering Too Much? Water Analysis Interpretation – Impact of Water Quality On Everything pH – An Accurate Indicator of Hardness? How Water Management Affects Yields How To Use Less Water & Get Better Crop Performance Fertigation Techniques Managing the Effects of Water Quality on Soil Chemistry & Structure, Plants and Foliar Sprays.
	2:00 – 2:15 p.m.	◆◆◆	Break
	2:15 – 3:15 p.m.	Jared Cook Field Consultant Rocky Mountain Agronomics	10 – Benefits of the <i>Ask The Plant</i>® Methodology to Growers & Consultants <ul style="list-style-type: none"> Introducing potential clients to a precision approach to crop nutrition. Moving from being a <i>Prisoner of the Past</i> to a <i>Pioneer of the Future: Is it worth it?</i> Benefits of Fertility Management: Reduction in Fungicides & Pesticides • Water Management: How much can it save you? ATP Season-Long Crop Nutrition Guidance: Return On Investment
	3:15 – 3:30 p.m.	◆◆◆	Break
	3:30 – 5:00? p.m.	Growers and Consultants	11 - PUTTING IT ALL TOGETHER: Panel of Growers and Consultants "Conventional" Practice versus Another Approach <i>How has it worked-out in the Real World?</i> Photos, End-of-Season Reports & Round-table Discussion – Questions & Answers for as long as necessary