Arequipa Nexus Institute Workshops Purdue University

July 22 - August 2, 2019



Sunday, July 21		LOCATION
~ 1 - 2 pm 5:00-6:30 pm	UNSA participants arrive at Chicago O'Hare Airport Dinner at Earhart Dining Court	
6:30-7:00 pm	UNSA Participants' Orientation Meeting, Registration	First Tower, Conference room
Monday, July 22		
9:00-10:00 am	"Welcome, Opening Remarks" Dr. Tomas Diaz de la Rubia, Chief Scientist & Executive Director, Discovery Park Dr. Henry Polanco, Co-Director Arequipa Nexus Institute Dr. Tim Filley, Co-Dir Arequipa Nexus Institute, Dir. Center for the Environment	WTHR 172
10:00 am	"DURI Presentations" Three groups of DURI students	WTHR 172
11:00-11:15 am	Break (coffee/refreshments)	WTHR 172
11:15-11:30 am	"Introduction to the New UNSA Stable Isotope Facility" Dr. Juan Lopa, Professor, Chemistry Department, UNSA	WTHR 172
11:30-11:45 pm	"Introduction to the New UNSA ICP MS" M.Sc. Adriana Larrea, UNSA	WTHR 172
11:45-12:00 pm	"Introduction to the New UNSA Surface Characterization facility" Dra. Corina Vera, UNSA	WTHR 172
12:00-1:15 pm	Lunch Ford Dining Court	
1:30-3:20 pm 1:30-1:40 pm 1:40-1:50 pm 1:50-2:00 pm 2:00-2:10 pm 2:10-2:20 pm 2:20-2:30 pm 2:30-2:40 pm 2:40-2:50 pm 2:50-3:00 pm 3:00-3:10 pm 3:10-3:20 pm	"Nexus Projects Overview", PI Presentations Toward Clean Water: Avoid Intrusion of Contaminants into Water Systems Develop and deliver undergraduate/graduate courses on Sustainable Dev. at UNSA Seasonal Heavy Metal Concentrations in Streams in the Arequipa Region Determining the sources of particulate air pollution in Arequipa, Peru Equitable Co-existence of Agriculture, Mining, and Regional Development in Arequipa Robotic Water Quality Monitoring and Distribution Systems Capacity Strengthening for Postharvest Handling and Storage in Peru Arequipa Region Soil Vulnerability, Impairment, and Health Assessment Development of Good Agricultural and Manufacturing Practices Trainings for Growers and Food Processors in Arequipa, Peru Net Zero Energy Building Develop and deliver undergraduate/graduate courses on Energy Efficiency at UNSA Break	WTHR 172
3:30-5:20 pm 3:30-3:40 pm 3:40-3:50 pm 3:50-4:00 pm	"Nexus Projects Overview", PI Presentations Plant-microbe interactions in agricultural soils with heavy metals contamination UNSA's Agricultural Experiment Station: A Strategic Plan Integrated Sensing Systems for Detection of Heavy Metal Contamination Across Food-Water-Environment Nexus in Arequipa	WTHR 172

4:00-4:10 pm	Development of low heavy metal, nutritious processed foods from Arequipa-area	
4:10-4:20 pm	staple crops with potential novel health attributes A Framework for Sustainable Water Management in the Arequipa Region	
4:20-4:30 pm	Estimating relative inputs of glacial melt-water, groundwater, and irrigation runoff in	
	rivers of Arequipa, Peru	
4:30-4:40 pm	Elevating the Peruvian Grape and Wine Industry into a Global Competitor through	
•	Advancements in Sustainable Agriculture	
4:40-4:50 pm	A Purdue-UNSA Initiative to Establish a Center on Food Security in Peru - Pilot Project	
4:50-5:00 pm	Harnessing Luminescent Radiation from Solar Cells for Agricultural and Environmental	
	Monitoring	
5:00-5:10 pm	Nexus Crops CRISPR and Phenomics: Individual and Institutional Capacity Building for	
	Crop Science at Universidad Nacional de San Agustin	
6:00-8:00 pm	Welcome Dinner	PMU, East West
		Faculty Lounge
6:00-6:15	Group Photo	
Torraday July 22		
Tuesday, July 23		
9:00-12:00 am &	"Water Origins: groundwater and surface-water in mountainous	HAMP 2201
1:30-4:30 pm	watersheds/isotopic and geochemical techniques used to infer	
	hydrological and hydrogeological processes"	
	Dr. Lisa Welp, Professor, Dept. Earth, Atmospheric & Planetary Sciences	
	Dr. Marty Frisbee, Professor, EAPS	
	"Arequipa Air Quality (ARQ) group: using Kintecus and box models	WALC 3122
	in chemistry and air quality applications"	WALC 3122
	Dr. Greg Michalski, Professor, EAPS Dr. Konto Magara Comos, Research Assistant, News	
	Dr. Kento Magara-Gomez, Research Assistant, Nexus	
	_	LILY 2-431
	Dr. Kento Magara-Gomez, Research Assistant, Nexus	LILY 2-431
10:30-11:30 am	Dr. Kento Magara-Gomez, Research Assistant, Nexus "CRISPR/Biotechnology: theories and hands-on practice"	LILY 2-431 WALC 3127
10:30-11:30 am 8:00 am-1:00 pm	Dr. Kento Magara-Gomez, Research Assistant, Nexus "CRISPR/Biotechnology: theories and hands-on practice" Dr. Mohsen Mohammadi, Professor, Agronomy	
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9:00-12:00 am & 1:30-4:30 pm	"Water Origins: Water balance in mountainous watersheds" Dr. Lisa Welp, Professor, EAPS Dr. Marty Frisbee, Professor, EAPS	HAMP 2201
	"Arequipa Air Quality (ARQ) group: Using and Applying HYSPLIT trajectory models" Dr. Greg Michalski, Professor, EAPS Dr. Kento Magara-Gomez, Research Assistant, Nexus	HAMP 4247
	"CRISPR/Biotechnology: theories and hands-on practice" Dr. Mohsen Mohammadi, Professor, Agronomy	LILY 2-431
	"SWM team meeting" Dr. Laura Bowling, Professor, Agronomy; SWM team	WALC 3087
	"Methods for Analyzing Microbial Activity and Abundance in Soils" Dr. Abigail Tomasek, Research Assistant, Nexus	LILY 3-120
	"Shiva Meeting" Dr. Tim Filley, Professor, EAPS	HAMP 3201
10:30-11:30 am	Break (coffee/refreshments)	WALC 3132
8:00 am-12:00 pm	"Tour TPAC and Meigs" Dr. Marshall Martin, Professor, Agricultural Economics	Off Campus
	"Sensor Design & Development: Monitoring Soil Health" Dr. Daniel Leon-Salas, Professor, Purdue Polytechnic Institute Dr. Cliff Johnston, Professor, Crop, Soil and Environmental Sciences Dr. Zachary Brecheisen, Research Assistant, Nexus Dr. Jino Ramson, Research Assistant, Nexus	Innovation Center ACRE
12:00-1:15 pm	Lunch Ford Dining Court	
1:30-4:30 pm	"AES Team Meeting" Dr. Marshall Martin, Professor, Agricultural Economics Amanda Dickson, International Programs in Agriculture	WALC 3138
1:30-4:30 pm	"Sensor Design & Development: Water Quality & Smart irrigation" Dr. BC. Min, Professor, Purdue Polytechnic Institute Dr. Suranjan Panigrahi, Professor, Electrical & Computer Engineering Technology Dr. Yogang Singh, Research Assistant, Nexus	WALC 1018
6:00-9:00 pm	"All Fired up" (pottery painting class)	Off Campus
Thursday, July 25		
9:00-12:00 am & 1:30-3:30 pm	"CRISPR/Biotechnology: theories and hands-on practice" Dr. Mohsen Mohammadi, Professor, Agronomy	LILY 2-431
	"Stable Isotope Ratio Monitoring in the Environment: Theory and Application-1 Dr. Tim Filley, Professor, EAPS Dr. Greg Michalski, Professor, EAPS	HAMP 2201
8:00am - 4:30 pm	"Tippy County 4-H Fair "	Off campus

	Amanda Dickson, International Programs in Agriculture	
10:00am-12:00 pm	"Summer Undergraduate Research Symposium"	PMU South Ballroom
10:30-11:30 am	Break (coffee/refreshments)	WALC 3132
12:00-1:15 pm	Lunch Ford Dining Court	
1:00-3:15 pm	"Molecular methods for quantifying the composition and activity of soil and plant microbiomes" Dr. Lori Hoagland, Professor, Horticulture & Landscape Architecture Dr. Alejandro Rodriguez-Sanchez, Research Assistant, Nexus Dr. Narda Silva, Research Assistant, Nexus	HORT 217
3:30-6:00 pm	"Nexus Poster Presentations"	STEW 218ABCD
Friday, July 26		
8:00-10:00 am	"Strategies for Successful Research Development & Grant Preparation" Dr. Lynne Dahmen, C4E Managing Director	WALC 1087
10:00-10:30am	"Introduction to the plans of the new Nexus CIEPA research building" Dr. Daniel Leon-Salas, Professor, School of Engineering Technology, Purdue	WALC 1087
10:30-11:30 am	Break (coffee/refreshments)	WALC 3132
8:00 am-12:00 pm	(8:30 - 10:00 am) Ag. Alumni Seed Improvement Assoc. (10:15 - 11:45 am) Indiana Crop Improvement Assoc. Dr. Marshall Martin, Professor, Agricultural Economics	Off campus
	"Metal Analysis and Speciation in Water" Dr. Chad Jafvert, Professor, Civil Engineering	HAMP 3153
12:00-1:15 pm	Lunch Ford Dining Court	
1:30-4:30 pm	"AES Team Meeting" Dr. Marshall Martin, Professor, Agricultural Economics Amanda Dickson, International Programs in Agriculture	WALC 1087
1:30-4:40 pm	"Metal Analysis in Water, Lab" Dr. Nadya Zyaykina, Lab Manager, Env. & Ecological Engineering Dr. Alex Ccanccapa, Research Assistant, Nexus	HAMP 2146
6:30-9:00 pm	"Visit to Wolf Park"	Off Campus
Saturday, July 27		
7:00 am-5:30 pm	"Landscapes, Soils, Agriculture, and Shopping in Northwest Indiana" Dr. Darrell Schulze, Professor, Soil Science	Off campus
11:30 am-2:00 pm	"Shopping/Lunch at Michigan City Outlet Mall Indiana"	Off campus
Sunday, July 28		
12:00-1:15 pm	Lunch Earhart Dining Court	

Monday, July 29 9:00-10:30 am "Data Publication and Management -DMP template"	Monday, July 29 9:00-10:30 am	3:00-7:00 pm	"Picnic at Martin Acres LLC; Peruvian Independence Day"	4840 Hawthorne
9:00-10:30 am "Data Publication and Management -DMP template" WALC 3122 9:00-10:30 am "Data Publication and Management -DMP template" WALC 3122 10:30-11:30 am Break (coffee/refreshments) WALC 3121 & HAMP 2201 10:45am-12:00 pm "Stable Isotope Ratio Monitoring in the Environment: Theory and Application-2" HAMP 2123 & 1:30-4:30 pm Dr. Tim Filley, Professor, EAPS Dr. Janine Sparks, PSI Lab Manager 10:45am-12:00 pm "Manuscript Writing Panel" WALC 3122 Panel coordinated by Dr. Laura Bowling WALC 3122 12:00-1:15 pm Lunch Wiley Dining Court 1:30-4:30 pm "Analysis of Nutrients in Water and Soil Extracts" NSERL AES Team Meeting - Wrap Up Dr. Marshall Martin, Professor, Agricultural & Biological Engineering Dr. Javier Gonzalez, NSERL AES Team Meeting - Wrap Up Dr. Narshall Martin, Professor, Agricultural Economics Amanda Dickson, International Programs in Agriculture "Sustainable Urban Agriculture Meeting" HORT 217 Dr. Lori Hoagland, Professor, Agricultural & Biological Engineering Dr. Ron Turco, Professor, Agricultural & Biological Engineering Dr. Ron Turco, Professor, Agricultural & Biological Engineering Dr. Tim Filley, Professor, EAPS Dr. Janine Sparks, PSI Lab Manager "Air Quality and Water Origins isotope mixing models" HAMP 2201 Tor. Greg Michalski, Professor, EAPS Dr. Janine Sparks, PSI Lab Manager "Air Quality and Water Origins isotope mixing models" HAMP 2201 ### Tour Tippy Extension office; Master Gardener demo gardens; Off Campus	9:00-10:30 am "Data Publication and Management -DMP template" Dr. Michael Witt, Purdue Libraries 10:30-11:30 am Break (coffee/refreshments) 10:45am-12:00 pm "Stable Isotope Ratio Monitoring in the Environment: Theory and Application-2" & 1:30-4:30 pm Dr. Tim Filley, Professor, EAPS Dr. Janine Sparks, PSI Lab Manager 10:45am-12:00 pm "Manuscript Writing Panel" Panel coordinated by Dr. Laura Bowling 12:00-1:15 pm Lunch Wiley Dining Court 1:30-4:30 pm "Analysis of Nutrients in Water and Soil Extracts" Dr. Sara McMillan, Professor, Agricultural & Biological Engineering Dr. Javier Gonzalez, NSERL AES Team Meeting - Wrap Up Dr. Marshall Martin, Professor, Agricultural & Biological Engineering Dr. Marshall Martin, Professor, Agricultural & Biological Engineering Dr. Sara McMillan, Professor, Agricultural & Biological Engineering Dr. Sara McMillan, Professor, Agricultural & Biological Engineering Dr. Marshall Martin, Professor, Agricultural & Biological Engineering Dr. Sara McMillan, Professor, Agricultural & Biological Engineering Dr. Ron Turco, Professor, EAPS Dr. Janies Sparks, PSI Lab Manager **Ali Quality and Water Origins isotope mixing models** Dr. Lisa Welp, Professor, EAPS Dr. Greg Michalski, Pr	3.00-7.00 pm		
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10:30-11:30 am Break (coffee/refreshments) 10:30-11:30 am "Stable Isotope Ratio Monitoring in the Environment: Theory and Application-2" and Application-2" Be 1:30-4:30 pm Dr. Tim Filley, Professor, EAPS Dr. Janine Sparks, PSI Lab Manager 10:45am-12:00 pm "Manuscript Writing Panel" Panel coordinated by Dr. Laura Bowling 12:00-1:15 pm Lunch Wiley Dining Court 1:30-4:30 pm "Analysis of Nutrients in Water and Soil Extracts" NSERL Pr. Sara McMillan, Professor, Agricultural & Biological Engineering Dr. Chad Jafvert, Professor, Clivil Engineering Dr. Javier Gonzalez, NSERL AES Team Meeting - Wrap Up Dr. Marshall Martin, Professor, Agricultural Economics Amanda Dickson, International Programs in Agriculture "Sustainable Urban Agriculture Meeting" Dr. Lori Hoagland, Professor, Agricultural & Biological Engineering Dr. Ron Turco, Professor, Agricultural & Biological Engineering Dr. Ron Turco, Professor, Agriculture & Landscape Architecture Dr. Sara McMillan, Professor, Agriculture & Landscape Architecture Dr. Sara McMillan, Professor, Agricultural & Biological Engineering Dr. Ron Turco, Professor, Agronomy 6:00-9:00 pm "Walking around Downtown" Off Campus Tuesday, July 30 9:00-12:00 am & "Stable Isotope Ratio Monitoring in the Environment: Theory and Application-3" Dr. Tim Filley, Professor, EAPS Dr. Janine Sparks, PSI Lab Manager "Air Quality and Water Origins isotope mixing models" Dr. Lisa Welp, Professor, EAPS Dr. Greg Michalski, Professor,	10:30-11:30 am Break (coffee/refreshments) 10:30-11:30 am Break (coffee/refreshments) 10:30-11:30 am "Stable Isotope Ratio Monitoring in the Environment: Theory and Application-2" & 1:30-4:30 pm Dr. Tim Filley, Professor, EAPS Dr. Janine Sparks, PSI Lab Manager 10:45am-12:00 pm "Manuscript Writing Panel" Panel coordinated by Dr. Laura Bowling 12:00-1:15 pm Lunch Wiley Dining Court 1:30-4:30 pm "Analysis of Nutrients in Water and Soil Extracts" Dr. Sara McMillan, Professor, Agricultural & Biological Engineering Dr. Javier Gonzalez, NSERL AES Team Meeting - Wrap Up Dr. Marshall Martin, Professor, Agricultural Economics Amanda Dickson, International Programs in Agriculture "Sustainable Urban Agriculture Meeting" Dr. Lori Hoagland, Professor, Agriculture & Landscape Architecture Dr. Sara McMillan, Professor, Agricultural & Biological Engineering Dr. Ron Turco, Professor, Agricultural & Biological Engineering Dr. Ron Turco, Professor, Aground Downtown" Tuesday, July 30 9:00-12:00 am & "Stable Isotope Ratio Monitoring in the Environment: Theory and Application-3" Dr. Tim Filley, Professor, EAPS Dr. Janine Sparks, PSI Lab Manager "Air Quality and Water Origins isotope mixing models" Dr. Lisa Welp, Professor, EAPS Dr. Greg Michalski, Professor, EAPS Tour Tippy Extension office; Master Gardener demo gardens; Grow Local gardens" Amanda Dickson, International Programs in Agriculture "Processing and Nutrition Lecture Series" WALC 1128	9.00-10.50 am	-	WALC 3122
10:30-11:30 am Break (coffee/refreshments) 10:45am-12:00 pm "Stable Isotope Ratio Monitoring in the Environment: Theory and Application-2" & 1:30-4:30 pm Dr. Tim Filley, Professor, EAPS Dr. Janine Sparks, PSI Lab Manager 10:45am-12:00 pm "Manuscript Writing Panel" Panel coordinated by Dr. Laura Bowling 12:00-1:15 pm Lunch Wiley Dining Court 1:30-4:30 pm "Analysis of Nutrients in Water and Soil Extracts" Dr. Sara McMillan, Professor, Agricultural & Biological Engineering Dr. Lord Jafvert, Professor, Civil Engineering Dr. Javier Gonzalez, NSERL AES Team Meeting - Wrap Up Dr. Marshall Martin, Professor, Agricultural Economics Amanda Dickson, International Programs in Agriculture "Sustainable Urban Agriculture Meeting" Dr. Lori Hoagland, Professor, Horticulture & Landscape Architecture Dr. Sara McMillan, Professor, Agricultural & Biological Engineering Dr. Ron Turco, Professor, Paps Dr. Janine Sparks, PSI Lab Manager 1:30-4:30 pm "Stable Isotope Ratio Monitoring in the Environment: Theory and Application-3" Dr. Tim Filley, Professor, EAPS Dr. Janine Sparks, PSI Lab Manager "Air Quality and Water Origins isotope mixing models" Dr. Lisa Welp, Professor, EAPS Dr. Greg Milchalski, Profess	10:30-11:30 am Break (coffee/refreshments) 10:45am-12:00 pm Stable Isotope Ratio Monitoring in the Environment: Theory and Application-2" and Application-2" 8. 1:30-4:30 pm Dr. Tim Filley, Professor, EAPS Dr. Janine Sparks, PSI Lab Manager 10:45am-12:00 pm "Manuscript Writing Panel" Panel coordinated by Dr. Laura Bowling 12:00-1:15 pm Lunch Wiley Dining Court 1:30-4:30 pm "Analysis of Nutrients in Water and Soil Extracts" Dr. Sara McMillian, Professor, Agricultural & Biological Engineering Dr. Chad Jafvert, Professor, Agricultural & Biological Engineering Dr. Javier Gonzalez, NSERL AES Team Meeting - Wrap Up Dr. Marshall Martin, Professor, Agricultural Economics Amanda Dickson, International Programs in Agriculture "Sustainable Urban Agriculture Meeting" Dr. Lori Hoagland, Professor, Agricultural & Biological Engineering Dr. Ron Turco, Professor, EAPS Dr. Jamine Sparks, PSI Lab Manager "Air Quality and Water Origins isotope mixing models" Dr. Lisa Welp, Professor, EAPS Dr. Greg Michalski, Professor, EAPS Dr. Grow Local gardens" Amanda Dickson, International Programs in Agriculture "Processing and Nutrition Lecture Series" WALC 118			WALC 3121 & HAMP
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Dr. Marshall Martin, Professor, Agricultural Economics Amanda Dickson, International Programs in Agriculture "Sustainable Urban Agriculture Meeting" Dr. Lori Hoagland, Professor, Horticulture & Landscape Architecture Dr. Sara McMillan, Professor, Agricultural & Biological Engineering Dr. Ron Turco, Professor, Agronomy 6:00-9:00 pm "Walking around Downtown" Tuesday, July 30 9:00-12:00 am & 1:30-4:30 pm "Stable Isotope Ratio Monitoring in the Environment: Theory and Application-3" Dr. Tim Filley, Professor, EAPS Dr. Janine Sparks, PSI Lab Manager "Air Quality and Water Origins isotope mixing models" Dr. Lisa Welp, Professor, EAPS Dr. Greg Michalski, Professor, EAPS 10:30-11:30 am Break (coffee/refreshments) WALC 3121 & HAMP 2201	Dr. Marshall Martin, Professor, Agricultural Economics Amanda Dickson, International Programs in Agriculture "Sustainable Urban Agriculture Meeting" Dr. Lori Hoagland, Professor, Horticulture & Landscape Architecture Dr. Sara McMillan, Professor, Agricultural & Biological Engineering Dr. Ron Turco, Professor, Agronomy 6:00-9:00 pm "Walking around Downtown" Tuesday, July 30 9:00-12:00 am & 1:30-4:30 pm And Application-3" Dr. Tim Filley, Professor, EAPS Dr. Janine Sparks, PSI Lab Manager "Air Quality and Water Origins isotope mixing models" Dr. Lisa Welp, Professor, EAPS Dr. Greg Michalski, Professor, EAPS Dr. Greg Michalski, Professor, EAPS Dr. Greg Michalski, Professor, EAPS 10:30-11:30 am Break (coffee/refreshments) "Tour Tippy Extension office; Master Gardener demo gardens; Grow Local gardens" Amanda Dickson, International Programs in Agriculture "Processing and Nutrition Lecture Series" WALC 1018		Dr. Javier Gonzalez, NSERL	
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Dr. Janine Sparks, PSI Lab Manager "Air Quality and Water Origins isotope mixing models" Dr. Lisa Welp, Professor, EAPS Dr. Greg Michalski, Professor, EAPS 10:30-11:30 am Break (coffee/refreshments) WALC 3121 & HAMP 2201 8:00 am-12:00 pm "Tour Tippy Extension office; Master Gardener demo gardens; Off Campus	Dr. Janine Sparks, PSI Lab Manager "Air Quality and Water Origins isotope mixing models" Dr. Lisa Welp, Professor, EAPS Dr. Greg Michalski, Professor, EAPS Break (coffee/refreshments) WALC 3121 & HAMP 2201 8:00 am-12:00 pm "Tour Tippy Extension office; Master Gardener demo gardens; Grow Local gardens" Amanda Dickson, International Programs in Agriculture "Processing and Nutrition Lecture Series" WALC 1018	1:30-4:30 pm		
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	Grow Local gardens" Amanda Dickson, International Programs in Agriculture "Processing and Nutrition Lecture Series" WALC 1018	10:30-11:30 am	Break (coffee/refreshments)	
Grow Local gardens"	Amanda Dickson, International Programs in Agriculture "Processing and Nutrition Lecture Series" WALC 1018	8:00 am-12:00 pm		Off Campus
	"Processing and Nutrition Lecture Series" WALC 1018			
Amanda Dickson, International Programs in Agriculture			Amanda Dickson, International Programs in Agriculture	
"Processing and Nutrition Lecture Series"	Dr. Bruce Hamaker, Professor, Food Sciences			WALC 1018
			Dr. Bruce Hamaker, Professor, Food Sciences	
WALC 1010			Dr. Bruce Hamaker, Professor, Food Sciences	

Dr. Grethel Choque, Professor, UNSA

12:00-1:15 pm	Lunch Wiley Dining Court	
1:30-4:30 pm	"Tour ACRE, Beck, and Phenotyping" Dr. Marshall Martin, Professor, Agricultural Economics	Off Campus
1:30-5:15 pm	"Heavy metals in the food chain: bioavailability, bioaccessibility and potential mitigation strategies" Dr. Bruce Hamaker, Professor, Food Sciences Dr. Lori Hoagland, Professor, Horticulture & Landscape Architecture Dr. Alex Rodriguez-Sanchez, Research Assistant, Nexus Dr. Yony Roman-Ochoa, Research Assistant, Nexus Dr. Maria Paula Zea, Research Assistant, Nexus	NLSN 1195
	"Hands-On Lab Activities for Metal Analysis" Dr. Sara McMillan, Professor, Agricultural & Biological Engineering Dr. Lori Hoagland, Professor, Horticulture & Landscape Architecture Dr. Bruce Hamaker, Professor, Food Sciences "Hands-On Lab Activities for Mycotoxin Analysis"	LILY LILY 1453
Wednesday, July 31	Dr. Charles Woloshuk, Professor, Bothany & Plant Pathology	
9:00-12:00 am &	"Water Origins and Air Quality Precipitation isotopes and	
1:30-4:30 pm	incorporate data analysis" Dr. Lisa Welp, Professor, EAPS Dr. Elizabeth Olson, Research Assistant, Nexus	HAMP 2201
	"Stable Isotope Ratio Monitoring in the Environment: Theory and Application-4" Dr. Tim Filley, Professor, EAPS Dr. Janine Sparks, PSI Lab Manager	HAMP 2123
	"Overview of Food Safety in Growing Operations and Food Production Facilities" Dr. Amanda Deering, Professor, Food Sciences Dr. Haley Oliver, Professor, Food Sciences	WALC 1018
10:30-11:30 am	Break (coffee/refreshments)	WALC 3121 & HAMP 2201
12:00-1:15 pm	Lunch Wiley Dining Court	
1:30-4:30 pm	"AES Team Meeting - Wrap Up & Next Steps" Amanda Dickson, International Programs in Agriculture	WALC 3122
	"Hands on Lab Activities on Microbiological Techniques for Fungi and Bacteria" Dr. Deering, Professor, Food Sciences Dr. Haley Oliver, Professor, Food Sciences Dr. Charles Woloshuk, Professor, Bothany & Plant Pathology	NLSN 1152

6:30-9:00 pm	"Bruno's Pizza"	Off Campus
Thursday, August 1		
9:00-12:00 am & 1:30-4:30 pm	"Stable Isotope Ratio Monitoring in the Environment: Theory and Application-5" Dr. Tim Filley, Professor, EAPS Dr. Janine Sparks, PSI Lab Manager	HAMP 2123
8:30-11:30 am	"Water Engagement in Peru: Needs assessment and discussion of extension & education models" Dr. Laura Bowling, Professor, Agronomy Dr. Edwin Bocardo, Professor, UNSA	WALC 1087
10:30-11:30 am	Break (coffee/refreshments)	WALC 3121 & HAMP 2201
9:00-12:00 am	"Postharvest Management" Dr. Dieudonne Baributsa, Professor, Entomology	SMTH 131
12:00-1:15 pm	Lunch Wiley Dining Court	
12:00-4:30 pm	"Small Farm Education Field Day, Agronomy Center for Research & Education, Postharvest Education and Research Center" Purdue faculty and staff	Off Campus
	registration at https://purdue.ca1.qualtrics.com/jfe/form/SV_3qQfl05iryF	<u> 3COp</u>
8:00am-4:30 pm	"Small Farm Education Day at Purdue Student Farm" Amanda Dickson, International Programs in Agriculture	Off Campus
Friday, August 2		
9:30-10:30 am	"Tour of PRIME Lab" Dr. Tom Woodruff and Dr. Berdine Martin	PRIME Laboratory
10:00-11:00am	"Safety Committee Meeting"	WALC 3087
11:00am-12:00pm	"Post Doctoral Committee Meeting"	WALC 1087
10:30-11:30 am	Break (coffee/refreshments)	WALC 3121 & HAMP 2201
12:00-1:15 pm	Lunch Wiley Dining Court	
9:00am-3:30 pm	"Water Engagement in Peru: Needs assessment and discussion of extension and education models" Dr. Laura Bowling, Professor, Agronomy Dr. Edwin Bocardo, Professor, UNSA	WALC 3087
4:00-7:00 pm	"Awarding Certificates and Closing Dinner" Minister Franklin Miller Rojas Escalante, Peru General Consul in Chicago	Dean's Auditorium, PFEN 241
Saturday, August 3		
2:30 AM	"Check out of PMU travel to O'hare. Back to Arequipa"	