



# **AQUACULTURE WORKFORCE DEVELOPMENT PROGRAM**

## **INTERACTIVE & HANDS ON APPLICATION**

**Emma Wiermaa**

**Aquaculture Outreach and Education**

**UWSP-Northern Aquaculture Demonstration Facility (UWSP-NADF)**

**UW Sea Grant Institute**





**“I believe the message is being sent by industry that we need to holistically enhance aquaculture education and training opportunities to meet current and future labor needs...**

**...the most common issue identified by all industry panelists: the lack of an available and qualified skilled workforce.”**

**-Michael H. Schwarz**  
*Virginia Tech. Aquaculture Specialist*  
*Past-President of WAS*



# University of Wisconsin-Stevens Point Northern Aquaculture Demonstration Facility



**Mission: Support sustainable aquaculture through public education and advance the discovery, dissemination and application of knowledge for aquaculture in a northern climate**

- **Outreach, Extension, Training and Technology Transfer**
- **Applied Research and Demonstration Projects**
- **Cooperative Partnerships with Private, State, Federal and Tribal Agencies**

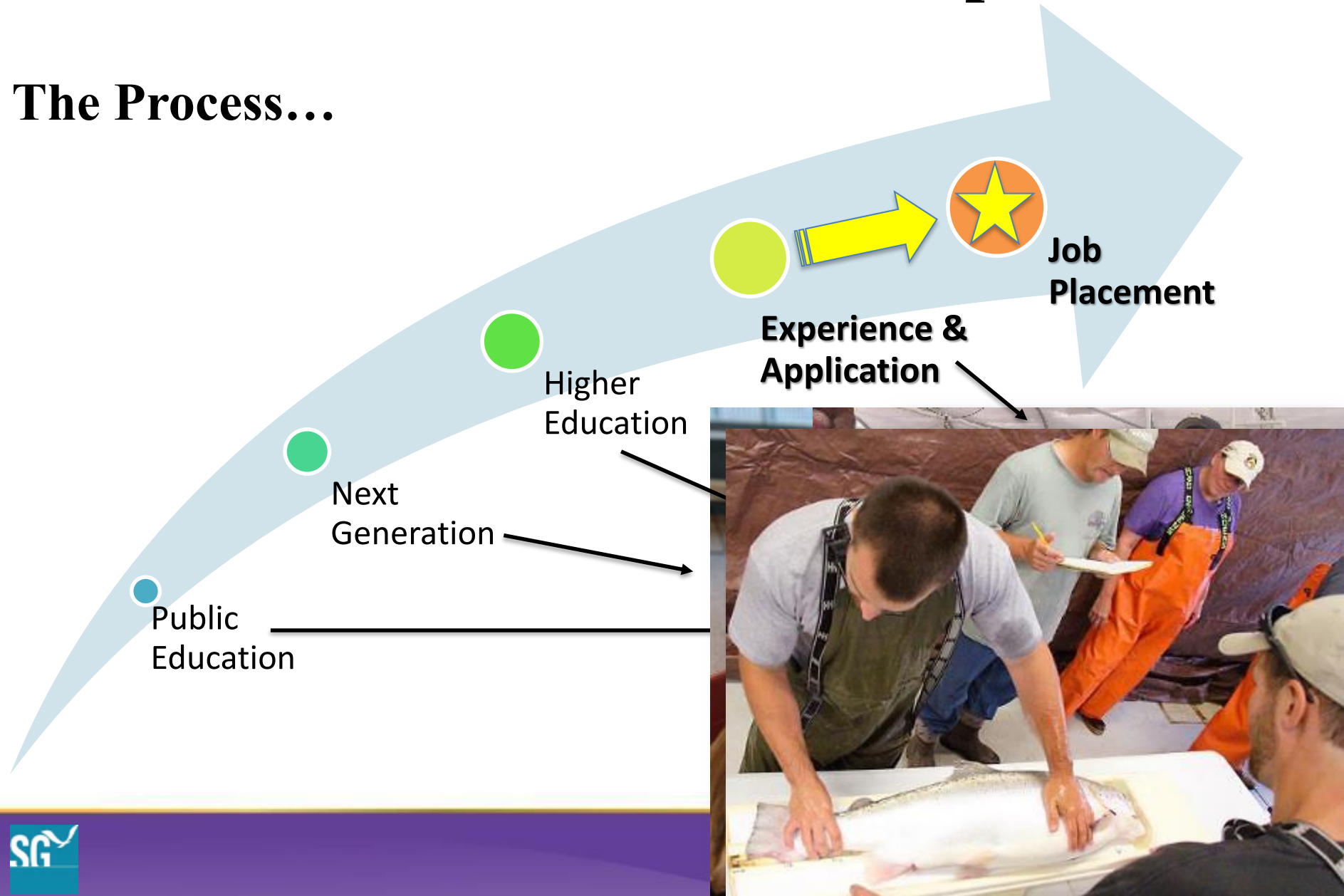
**Aquatic  
Barn**





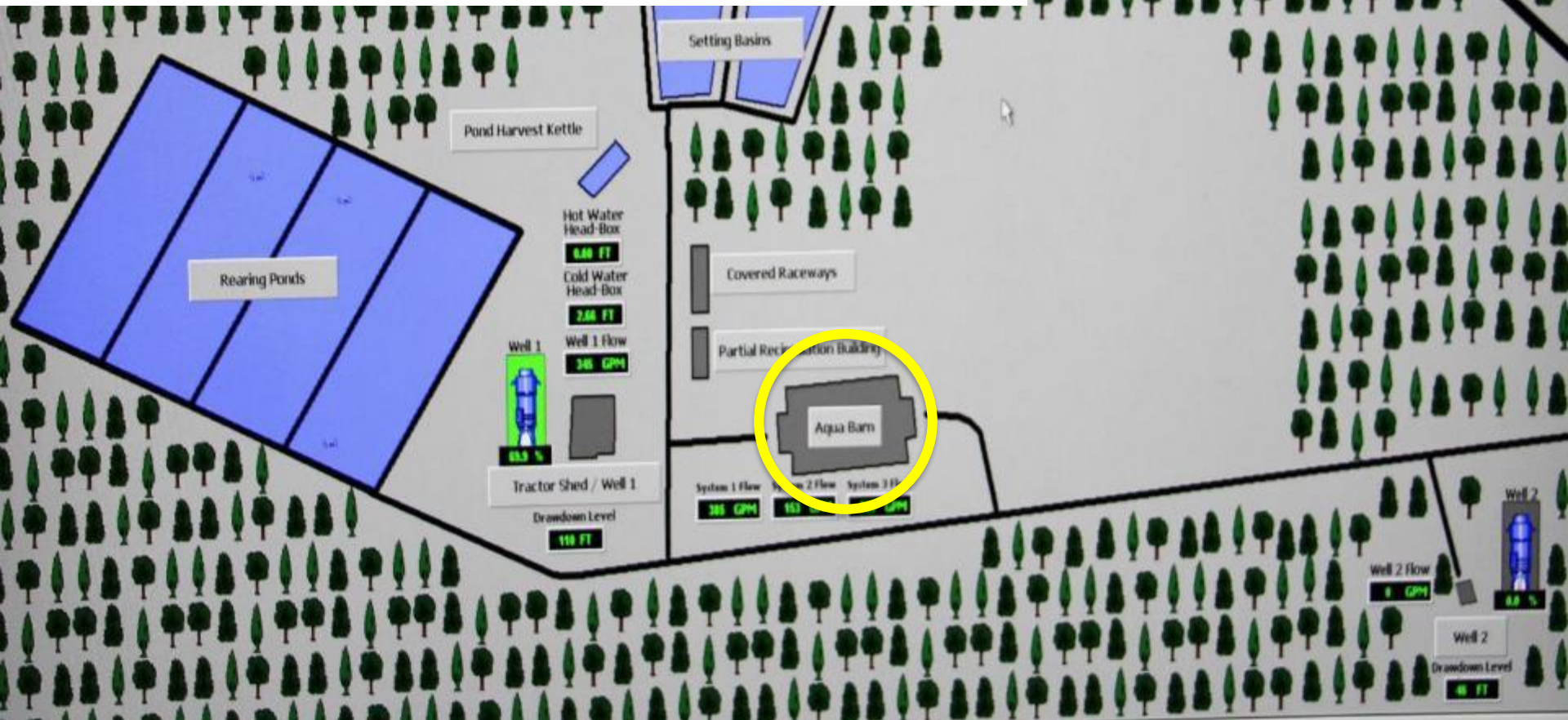
# UWSP-NADF Workforce Development

## The Process...



# ● Hands on Experience: Internships & Technician Positions

- Variety of species, life stages, and systems
- Real life application, research, and collaboration









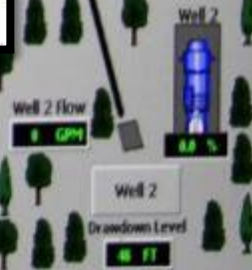


Rearing Ponds

Pond Harvest Kettle

Hot Water  
Head-Box  
0.60 FT  
Cold Water  
Head-Box

Covered Raceways





# Program Manages: 1 Technician/yr. 2-4 Internships/yr. and growing...



[Bob Stephenson](#)

UWSP-NADF Aquaculture Technician  
2013-2014

Aquaponics Technician for Aquaponics  
Industry Leader Nelson and Pade, Inc.



[Klint Hischke](#)

UWSP-NADF Intern 2011 & 2012

General Hatchery Manager of Wally  
Noerenberg Hatchery on Esther Island  
in the Prince William Sound of Alaska



[Jesse Andrews](#)

UWSP-NADF Summer Intern 2014

Northland College Student-Biology Major



[Derick Peters](#)

UWSP-NADF Summer Intern 2012

Max McGraw Wildlife Foundation-Assistant  
Fisheries Manager



[Mike Defoe](#)

UWSP-NADF Summer Intern 2008

Fisheries Biologist; Red Cliff, WI



[James Barron](#)

UWSP-NADF Summer Intern 2006

USFWS Fish Biologist; Abernathy Fish  
Technology Center, WA



[Abby Purdy](#)

UWSP-NADF Intern 2007

M.S. in Biology-Aquatic Sciences



[Dave Schumann](#)

UWSP-NADF Summer Intern 2009 at  
Star Prairie Rainbow Trout Farm

Obtaining PhD at South Dakota State  
University-Stream Ecology



[Kyle Woolever](#)

UWSP 2011 Graduate, Fisheries Intern,  
Technician, Research Assistant

Global Belt Implementation Project  
Manager



[Aaron Frater](#)

UWSP-NADF Volunteer

Assistant Manager: Prince William Sound  
Pink Salmon Hatchery, Alaska



[Emily Hoopman](#)

UWSP-NADF Volunteer/Intern 2012

St. Olaf Student: Biology Major,  
Education Emphasis



[Nicole Larson](#)

2014-2015 UWSP-NADF Aquaculture  
Technician

Aquaculture Technician for Sweet Springs  
Hatchery, Washington



[Rebecca Philipps](#)

UWSP-NADF Intern 2009

M.S. Research Assistant: Savannah River  
Ecology Laboratory- University of Georgia



[Bryan Rehwinkel](#)

UWSP-NADF Intern 2008-2010

Fish Culturist at Ruth Burnett Sport Fish  
Hatchery



[John Tix](#)

UWSP-NADF Summer Intern 2010

USGS Technician



[Sam Hempel](#)

UWSP-NADF Summer Intern 2014

UWSP Student: Fisheries Management  
Major- Aquaculture Minor



[Mackenzie Klemek](#)

UWSP-NADF Summer Intern 2014-2015

UWSP Student; Major in  
Aquaculture/Aquaponics



[Hilary Meyer](#)

UWSP-NADF Intern 2007

Fisheries Biologist at South Dakota  
Game, Fish and Parks



## *Past Interns:*

*Lee Scoggin & Brianna Dunbar- Now at Superior Fresh, LLC.*



# *Mackenzie Klemek- Aquatic Facility at Carnegie Institution for Science, Maryland*



University of Wisconsin-Stevens Point  
College of Letters & Science



# *Nicole Larson- Riverence, LLC.*



STEELHEAD TROUT • COHO SALMON • ATLANTIC SALMON  
*Premium Pedigree Eggs • High Survival • Customer Support from Hatch to Harvest*

## PROVEN PERFORMANCE

EXPERIENCE *the* RIVERENCE DIFFERENCE

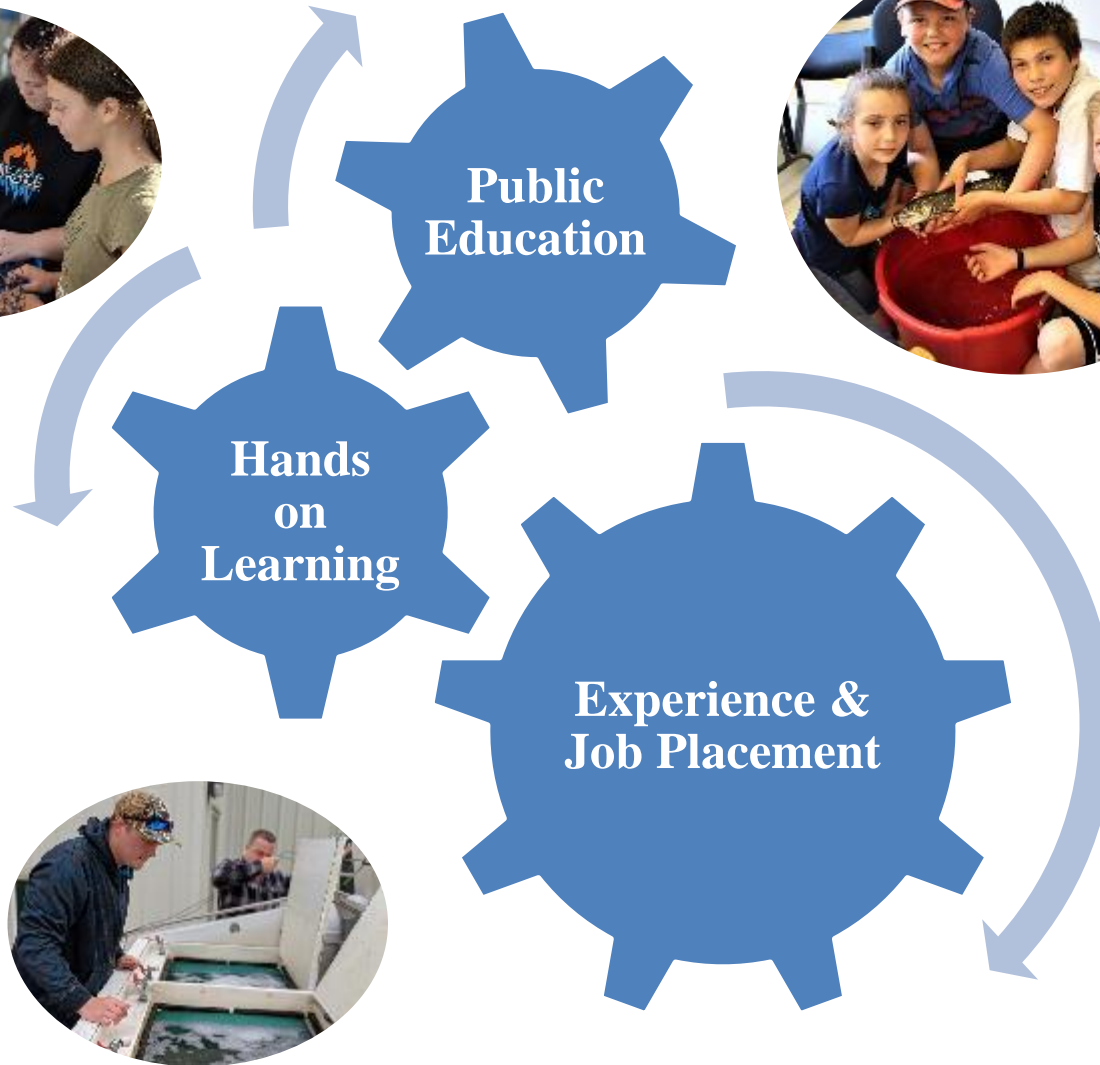


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University of Wisconsin-Stevens Point  
College of Letters & Science

# Education Gears to Drive Workforce Development







Questions?