



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



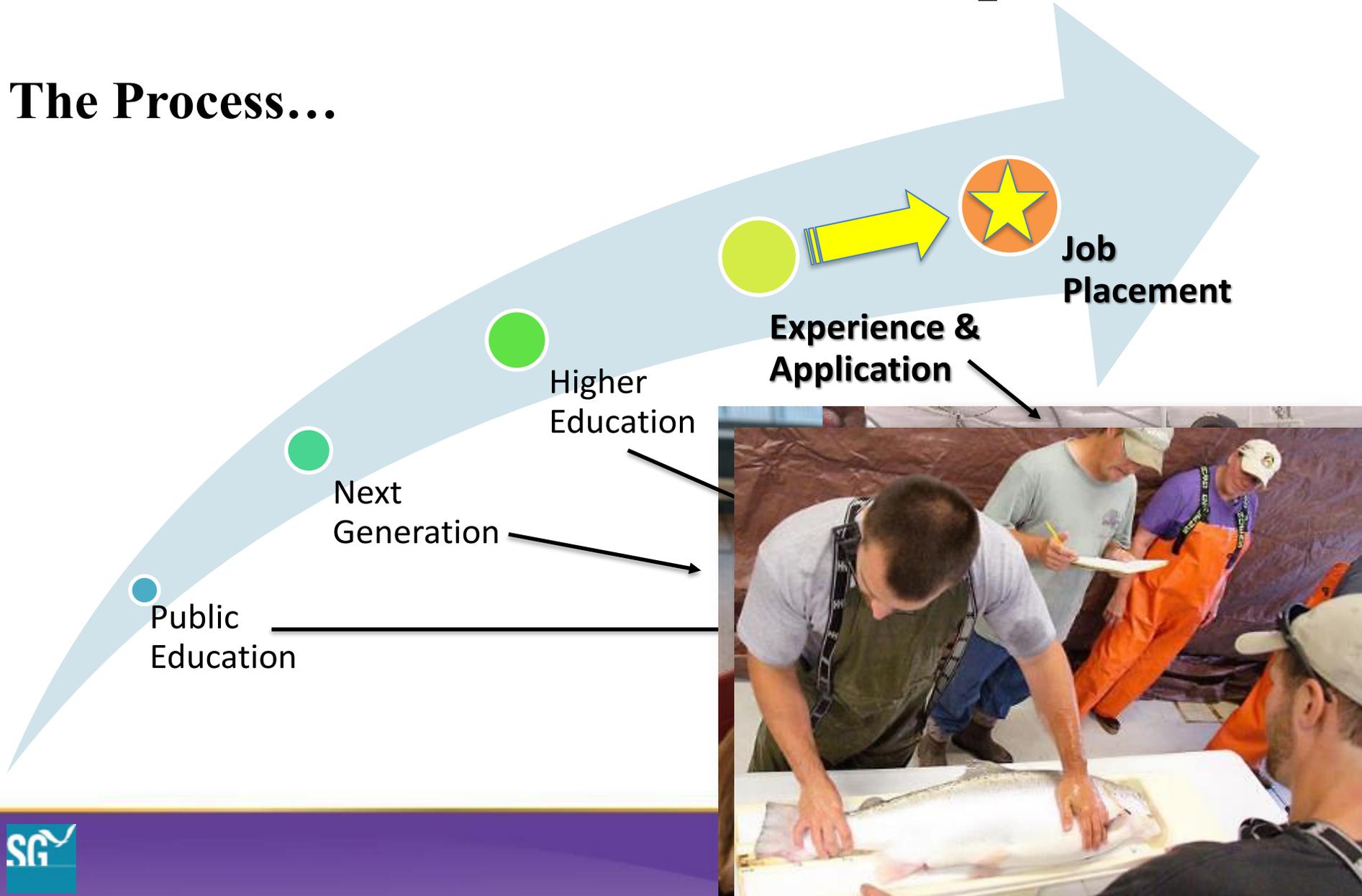
Mission: Support sustainable aquaculture through public education and advance the discovery, dissemination and application of knowledge for aquaculture in a northern climate

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



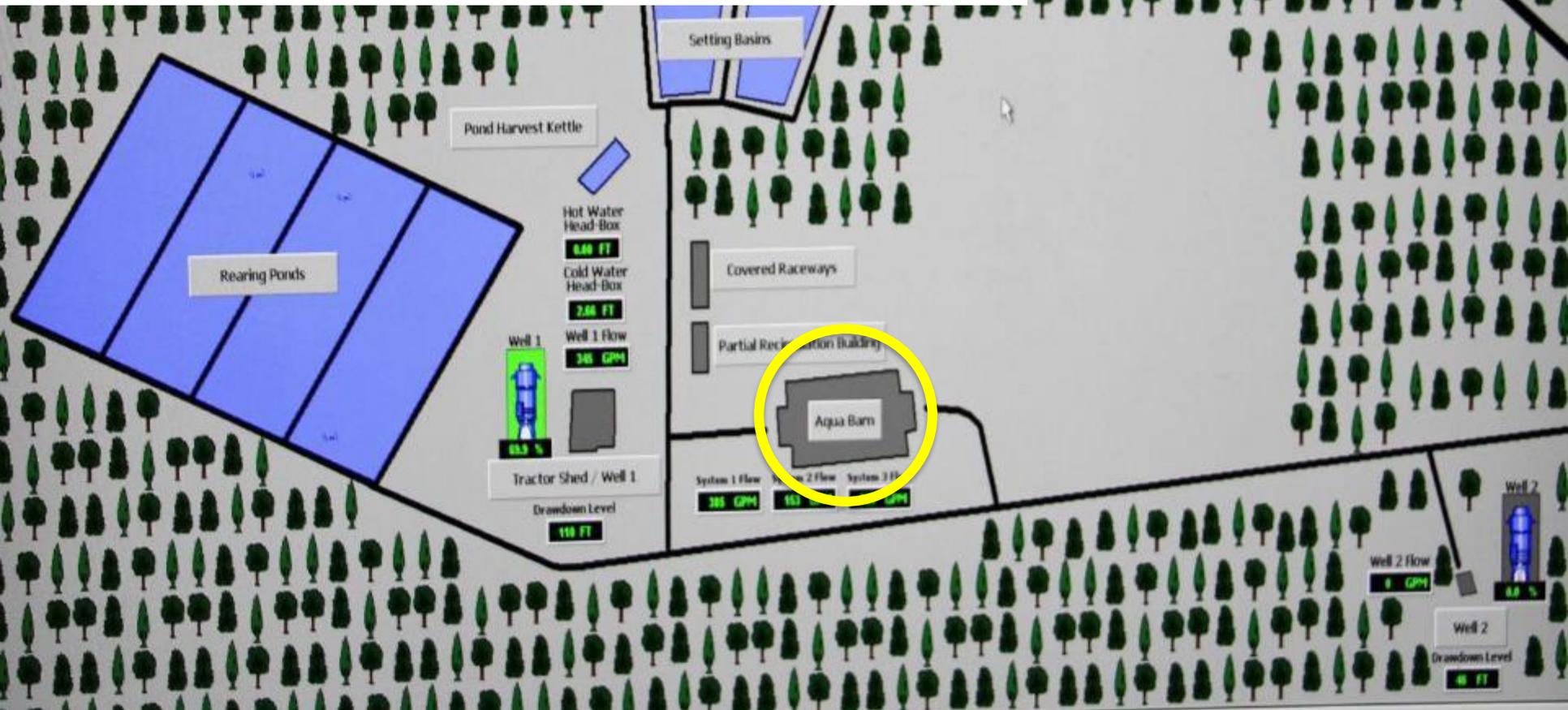
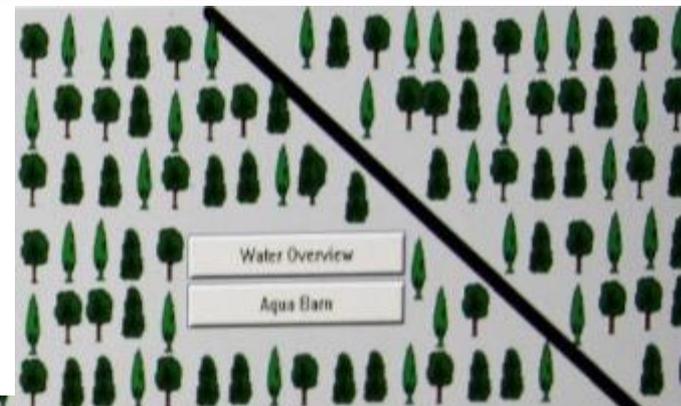
UWSP-NADF Workforce Development

The Process...

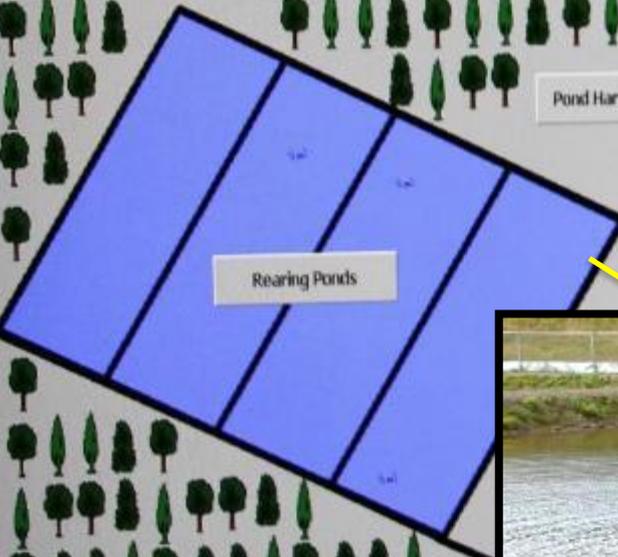


● Hands on Experience: Internships & Technician Positions

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





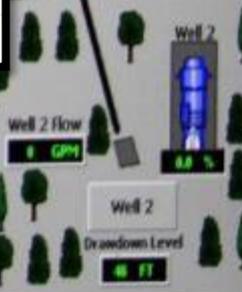


Pond Harvest Kettle

Hot Water Head-Box
0.40 FT
Cold Water Head-Box

Covered Raceways

Rearing Ponds



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.



[Derick Peters](#)

UWSP-NADF Summer Intern 2012

Max McGraw Wildlife Foundation-Assistant
Fisheries Manager



[Klint Hischke](#)

UWSP-NADF Intern 2011 & 2012

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



[Mike Defoe](#)

UWSP-NADF Summer Intern 2008

Fisheries Biologist; Red Cliff, WI



[Jesse Andrews](#)

UWSP-NADF Summer Intern 2014

Northland College Student-Biology Major



[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



[Rebecca Philipps](#)

UWSP-NADF Intern 2009

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



[Dave Schumann](#)

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

Obtaining PhD at South Dakota State
University-Stream Ecology



[Bryan Rehwinkel](#)

UWSP-NADF Intern 2008-2010

Fish Culturist at Ruth Burnett Sport Fish
Hatchery



[Kyle Woolever](#)

UWSP 2011 Graduate, Fisheries Intern,
Technician, Research Assistant

Global Bait Implementation Project
Manager



[John Tix](#)

UWSP-NADF Summer Intern 2010

USGS Technician



[Aaron Frater](#)

UWSP-NADF Volunteer

Assistant Manager: Prince William Sound
Pink Salmon Hatchery, Alaska



[Sam Hempel](#)

UWSP-NADF Summer Intern 2014

UWSP Student: Fisheries Management
Major- Aquaculture Minor



[Emily Hoopman](#)

UWSP-NADF Volunteer/Intern 2012

St. Olaf Student: Biology Major,
Education Emphasis



[Mackenzie Klemek](#)

UWSP-NADF Summer Intern 2014-2015

UWSP Student; Major in
Aquaculture/Aquaponics



[Nicole Larson](#)

2014-2015 UWSP-NADF Aquaculture
Technician

Aquaculture Technician for Sweet Springs
Hatchery, Washington



[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



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



360-491-2200 • EGGS@RIVERENCE.COM



Education Gears to Drive Workforce Development





Questions?