FANTASTIC TECHS AND WHERE TO FIND THEM

UNOLS RVTEC
Duluth MN
October 26, 2017

Moderator: Tom Wilson
Stony Brook University

Panelists: David Fisichella, WHOI
Marc Willis, OSU
Rapporteur: Toby Martin, UH

WHAT MAKES A GOOD TECH?

HOW TO FIND THEM?

HOW TO KEEP & GROW THEM?

Dale Chayes, unafraid of Minnesota climate (see upper right drilling through Arctic sea ice) but absent from RVTEC this year to keep promise to Frodo the search dog (see lower right) not to miss upland game bird season again.

Dale via email: *“In awe of a technician (it might have been Butch Grant) at WHOI one day in the mid-80’s, I asked my friend, colleague, and collaborator Don Koelsch where they got them. Don said:*

‘We grow them.’”

WHAT MAKES A GOOD TECH?

Education:
College majors: Marine Sciences better than Engineering/computers (CS: John, John, Toby)
MATE program
Technical training: DeVry etc.?
SEA students
Science background
Mission dependent
Problem solver

Work experience:
Military, especially technical/electronic training
Ex oil patch
Fisheries Observers
Sea Going (seasick?)

Hobbies and interests:
Electronics hobbyist

WHAT MAKES A GOOD TECH? (continued)

HOW TO FIND THEM

“Grow them”: Hire undergraduate student assistants.

Pirate
Grow
Tech Pool
MATE 9Internships and ROV compitions)
Community College (Associate Degrees?)
REU (Research Experience for Undergraduates)
High School Robotics Team
Public Outreach (head hunting the kids)
Veteran outreach and publications

HOW TO FIND THEM (continued)

HOW TO KEEP & GROW THEM

Of course: fair treatment, appreciation, recognition, opportunity.
Marc: Travel, toys, training, communication with manager (check in with employee), ownership, career path, Participate in UNOLS meetings

Training: programming, refrigeration, welding, forklift.
Provide time for training
Utilize University resources
Part of the job description, not in addition to.
Fleetwide standardized trainings at UNOLS institutions.
Vessel swap
Engage other fieldwork programs (seismic, NOAA,

Conferences: RVTEC, Oceans, MTS (Marine Tech Society), workboat show, OTC , OSCON (Open Source), UI (Underwater Interventions).

Competitions:
Gadget (Arduino/Pi/…) Smackdown

HOW TO KEEP & GROW THEM (continued)

Thank
You!