Tod Schimelpfenig

Curriculum Director,

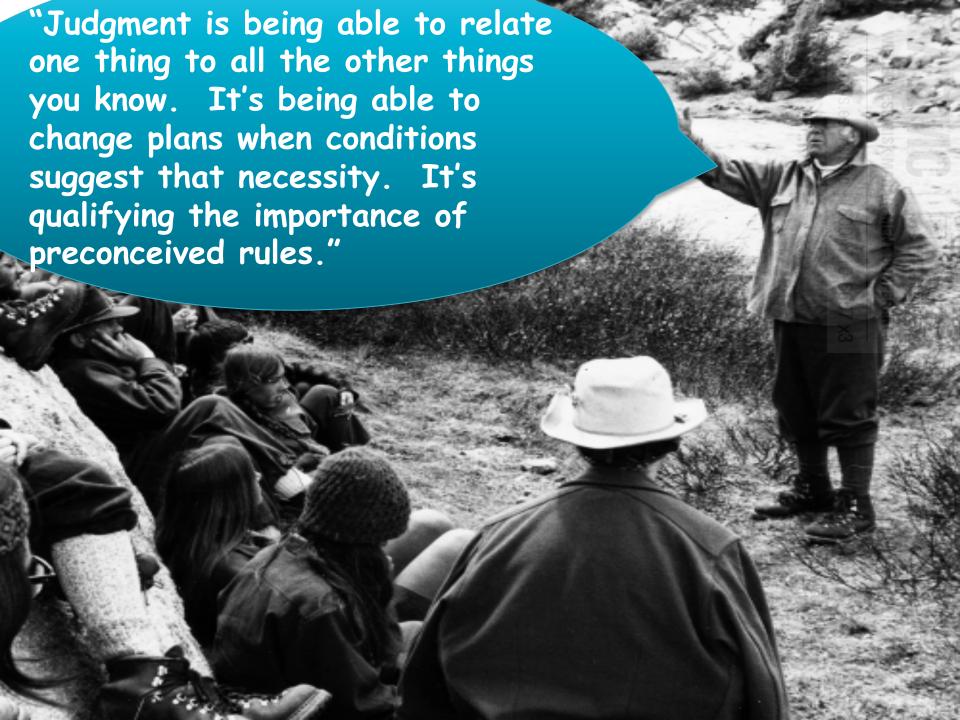
NOLS Wilderness Medicine

Brendan Madden Rocky Mountain Program Director, Outward Bound Canada A bit of history and myth busting.

- A sketch of where we think we are now.
- A conversation about where we want to go.







- 70's Learning as we go.
- 80's Can we teach judgment?
- 90's How do we teach judgment?
- 00's How does the brain work? How do we make decisions?

Jasper S. Hunt, Jr., Ph.D.

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It is appropriate in this issue of the *Journal* to deal with an issue that is intimately connected with the overall problem of safety and risk management in outdoor pursuits. The issue is the conflict between rules and instructor judgment as the means to achieve safe adventure courses.

My assumption here is that reasonable experiential educators are united in agreeing that reckless activities which will result in injury or death to students or staff are not acceptable. This is not a particularly controversial proposition. However, reasonable people quickly begin to disagree about the best means to achieve the goal of eliminating recklessness on courses.

An approach to safety and risk management that is becoming increasingly popular in man adventure-based programs is simply to devise a system of rules that will minimize risk. This is a deductive approach to the problem. The particular instructor when confronted with a potentially dangerous situation, simply picks the appropriate rule or policy which covers that situation and concludes what should be done. The function of the instructor is to be able to apply the rule to the case and

sandy bottomed, shallow stream. They want to have dry sneakers for the next day's marathon and they want to finish the hike in dry boots. The rule-based, legalistic instructor simply applies the rule to the case and deduces that the students must wear either boots or sneakers. The situational instructor might assess this particular stream crossing and induce the **in this situation** foot gear need not be worn. Both instructors are in agreement that cut feet are not desirable. They are not agreed upon the best means to achieve this goal. The legalist has the advantage of absolute certainty. The situational, instructor-based judgment decider could be wrong about his or her assessment of the situation.

Frankly, I am afraid that the rule-based model for making decisions is gaining the upper hand in experiential education in the United States today. Fear of lawsuits and bad publicity is impelling many program administrators to minimize the amount of freedom provided to their field instructors in order to maximize the certainty of the outcome of specific situations.

There is something very strange and incongruent about an educational movement that espouses the values of

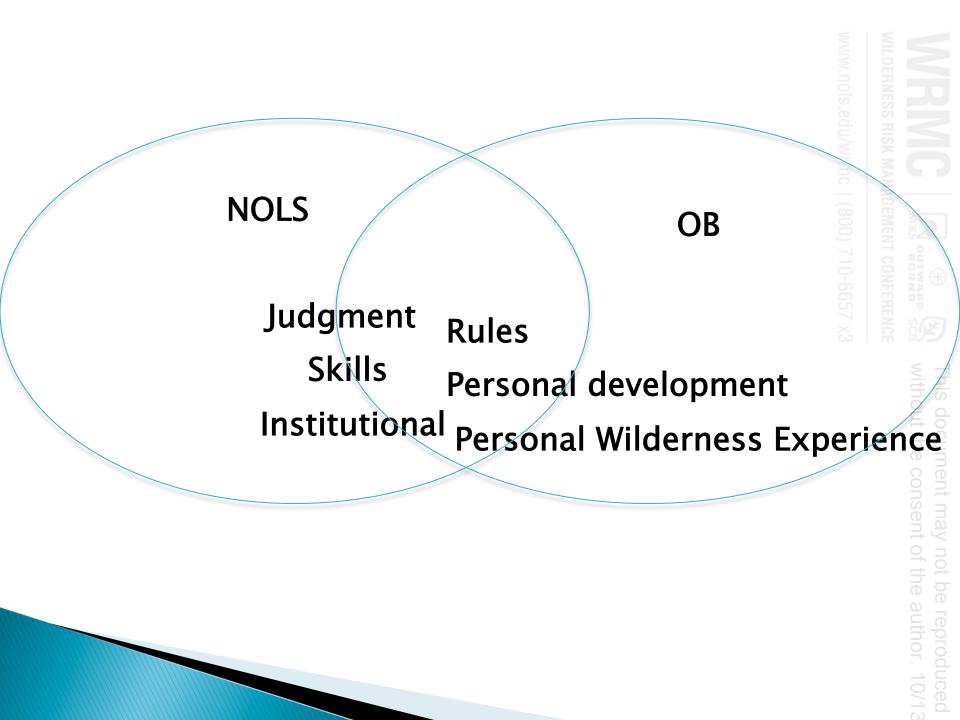
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Judgment Skills Institutional OB

Rules
Personal Development
Personal Wilderness
Experience

B V G



Complex



Ropes Course Day Hiking on Trail



Avalanche Terrain Grizzly Bears

Decision-Making topics at the WRMC

- 1995 Questioning Decisions. Gary Faris
- 1998 Cockpit Communication
- 1999 New Concepts in Judgment Kent Clement
- 2000 OB Judgment Workshops Jim Garrett Human Factors Scott Erickson
- 2005 Decision Making: Modern Theories Ian McCammon
- 2008 The Learning Brain Jeb Schenck Human Factors – Lester Zook

2013 Human Factors – Stupidity Explored Zook Errors of Perception – Gates Richards Systems – Jeff Jackson WILDERNESS RISK MANAGEMENT CON

How We Make Decisions

System 1

Automatic

Quick, little or no effort

No sense of voluntary control

Pattern recognition, intuition

How We Make Decisions

System 2

Effortful mental activities

The reasoning self with beliefs and choices

Affected by attention and distraction

"A number of studies show that procedures help people in typical tasks but in novel situations people do best by understanding the underlying system. People who understand the system develop richer mental models than those who only follow checklists."

Streetlights and Shadows Klein 2009



NESS BISK

Decision-Making Traps

Familiarity
Acceptance
Commitment
Expert Halo
Tracks (Scarcity)
Social Proof



McCammon lan. Evidence of heuristic traps in recreational avalanche accident Proceedings of the International Snow Science Workshop, Pentral Pritish Columbia, Sept. 30 -

VRIVIG

AGEMENT CONFERI

without the consent of the author.

- Avalanches in the area
- Loading by snow, wind or rain in last 24 hours
- Paths (historic avalanche paths)
- ▶ Terrain Traps
- Rating of considerable or higher
- Unstable snow: collapsing or cracking
- Thaw instability: recent & rapid warming

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Kind v Wicked

Relevant Honest Timely Exacting Irrelevant Dishonest Delayed Lenient

Breakout!

Is the level of expertise of your staff consistent with the kinds of decisions required of them?

If you have multiple programs, are they all on the same place on the spectrum?

Do you feel like there is pressure to increase the number of rules in your organization?





Levels of Expertise

Novice

Unconscious

Incompetent

Beginner

Conscious

Incompetent

Competent

Conscious

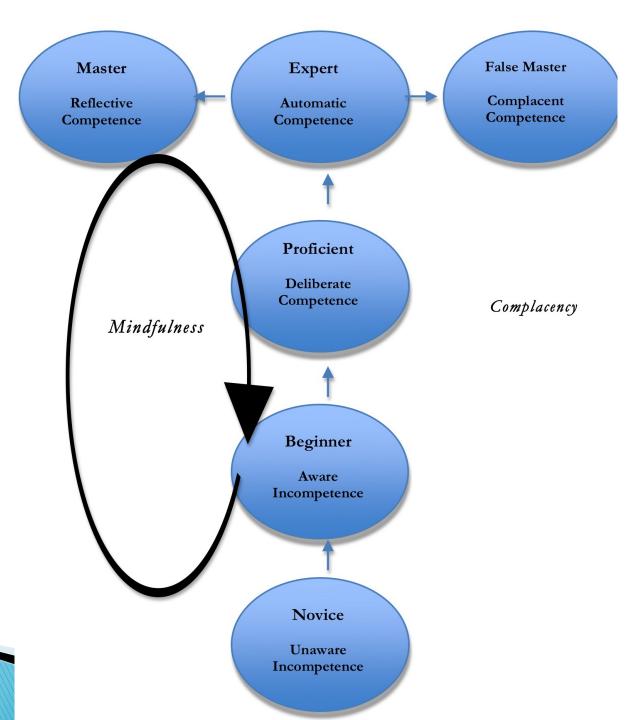
Competent

Expert

Subconscious

Competent





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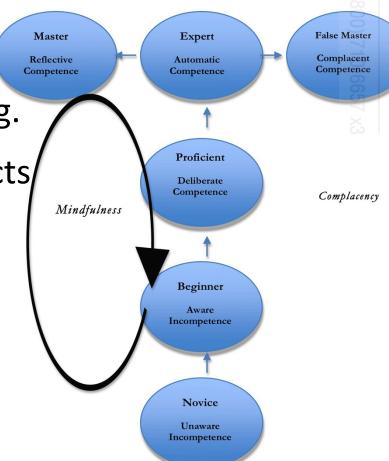
Mindful Practice

The ability to observe ourselves in the midst of the complexity and chaos of the moment.

 Awareness of how we are thinking, observing and feeling.

 Curiosity to examine the effects of our actions.

 Willingness to use those observations to improve.



The Seven Systems of Outdoor Adventure **Risk Management Planning** Organization **Business Planning** Management System System Program Staffing/Human **Planning** Resources System System **Program Activity** Client Crisis Information Management System System Equipment Management System



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The end