

***The Role of Science and Scientists
in Collaborative Spaces***

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Major Points

- Perceptions/Experiences
- Acculturation of Scientists
- Attributes of Science
- Science in Collaborative Spaces



Notes: How science is perceived; what is wrong with both science and scientists?
A lot of scientists are not students of science. What needs to change?

John Day, Oregon BLM

Partnership Series

- Guided venting
- Reframing by facilitators
- Acknowledging perception of scientists (flip chart)
- Discussion of failings of science and scientists
- Some points:
 - Mutual respect-- not being 'right'
 - Admission of uncertainty
 - Honor local wisdom
 - Speak your truth, but non-pretentious



Notes page:

Reframing by neutral created a new space to interact in, with hope—reworked schedule--adapted (transformation)

Flip chart—they 'typed me'—I had to show that I was in same space Todd created (uncertainty, arrogance, cultural)

Flip chart—falsification of data/agenda/reductionism/remoteness/arrogance/geek Opaque literature

Mutual respect (Antarctica) and not being 'right'—good will; build trust

Honor local wisdom—Miles City, Mt. Army Corps

Joking—eased tension (mentioned by Forest Supervisor)

Acculturation: “The process by which a human being acquires the culture of a particular society from *infancy*.” (Webster)

Challenges to Engaging Science in Public Arena

- **Introversion**
- **Rewards (individuals, expertise)**
- **Funds through disciplines**
- **Socialization in disciplines**
- **Entitlement (social contract)**



NOTE: introvert/extrovert joke

Science attributes

- Facts/theories—evolution (belief systems)
- Objectivity*/non-advocacy—global warming; drought
- Uncertainty
- Modeling—unknown parameters; become templates
- Unintended Consequences

Failure of joint fact finding may be more a failure of science than a failure of joint fact finding.

Science in Collaborative Spaces

- New culture—humility, listening skills, training of scientists
- Full partner, meaningful inclusion, mutual respect
- Local wisdom
- Transparency—builds trust (JFF)
- If...then scenarios
- Evaluate potential tradeoffs
- Forecasting, not predicting
- Adaptive management



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