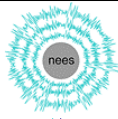


Issue Forum 4: Report of Discussion **Mechanisms to Improve Research Implementation and Technology Transfer**

Moderator: Carl Stepp, EHS
Facilitator: Cliff Roblee, NEESinc
Panelists: Michael Keever, Caltrans
Ron Mayes, SGH
Joy Pauschke, NSF
James St. Pierre, NIST

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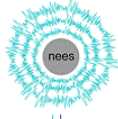


“Fundamental” vs. “Applied”

- **Fundamental**
 - Supports student projects – tractable 3-year problems
- **Applied**
 - Addresses gap between academia and practice
- **Proper Mix**
 - NSF – 60% fundamental, 40% applied
 - NEHRP, Stakeholders, Industry: Partner \$ for applied

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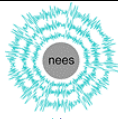




Strategy 1

- **Develop highly inclusive partnering policies with stakeholder organizations, industry, practitioners**
 - **General consensus – very good idea**
 - **Policy should be developed to provide partner / stakeholder / industry access to excess shared use capacity. NSF would be thrilled.**
 - **Should identify shared-use rate strategies.**
 - **Partners should participate in development of research needs**

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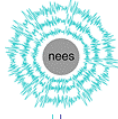


Strategy 2

- **Establish a *research-to-practice* working group constituted of stakeholders, practitioners, and industry representatives**
 - **General consensus – very good idea**
 - **Should help NEES focus on defining “grand integration project(s)” (see strategy 3)**

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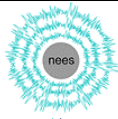




Strategy 3

- **Host workshops/interviews involving stakeholders, practitioners, and industry to define needs.**
 - **General consensus – very good idea**
 - **NSF wants NEES to have clear impact on practice in 10 years ... Must think now what that should look like.**
 - **Define roadmaps for “grand integration project(s)” (see strategy 2).**
 - **Should meet with industry to specify products needed, then develop research programs around these needs**

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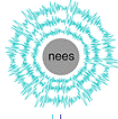


Strategy 4

- **Identify cost-sharing strategies for industry-sponsored research initiatives**
 - **Important to do.**
 - **Discussed matching mechanisms**
 - **Competitive Industry RFP seeking NSF Match**
 - **Direct partnerships with NSF**
 - **Direct partnerships with NEESinc**

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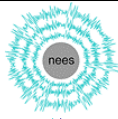




Strategy 5

- **Develop blind prediction exercises to:**
 - **General consensus – very good idea**
 - **Good outreach activity**
 - **Means to ID epistemic uncertainty in modeling**
 - **Should engage commercial software providers**
 - **Should consider mechanisms to not have “gotcha”, but have informative participation**
 - **Should provide small stipend/honoraria to participate**

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Strategy 6

- **Develop opportunities for researchers to participate in practice-oriented test bed projects**
 - **Important to have practitioners assist researchers with practical applications to evaluate their tools.**
 - **Generally lower priority**

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