

From the OPAS Workshop, November 2006:

# Some Possible Methods

for implementation

- **Policy:** Work with boards, councils, governmental staff, and others to establish a common goal and allocate resources to achieving that goal.
- **Funding:** Obtain funding for strategy, establish process for distributing funds to those best suited to implement the strategy, implement this process, and monitor the results.
- **Collaboration:** Identify organizations with common goals, develop joint plans, and implement these plans.
- **Pre-service professional development:** Work with schools of education and others to reach future teachers.
- **In-service professional development:** Offer workshops and courses to those already working with students to enhance their knowledge and effectiveness
- **Formal education:** Enhance what is taught to students in the classroom and students labs and how it is taught.
- **Informal education:** Augment what is available in formal classrooms with extra-curricular programs and activities in a variety of settings.
- **Marketing:** Inform students directly and through parents, teachers and counselors through marketing campaigns.
- **Grass roots:** Pull together small groups of people with the latitude and motivation to take independent action, develop and deploy prototype solutions, and grow the best.

# Criteria

for choosing and evaluating strategies and plans

- How well does this choice **align with OPAS' vision, mission and goals**? Does this strategy serve to increase the number of work-ready engineers and applied scientists in Oregon?
- How much potential does this choice have to **reduce obstacles to student success**, which might include, but are not limited to access, preparation, appropriate habits of mind, socio-cultural factors, and awareness of options?
- What is the **breadth of impact** of this choice? How many students would be affected?
- What is the **depth of impact** of this choice? To what extent will the strategy engage students or others in a way that will cause depth of understanding or long-term change in behavior?
- Is this strategy a **prerequisite** for other high-priority strategies?
- Are the **resources** required to implement this choice of strategy **available**? How readily? Is there risk associated with acquiring those resources?
- Does this strategy **leverage** the work of others or present opportunities for synergistic collaboration? Or, is this choice something that is **already** being adequately **addressed** by others?
- How well does this match the **expertise, connections, and passions** of OPAS members? Is this strategy exciting enough to encourage the recruitment of new members?
- Is this strategy **short-term or long-term**? Is it change that requires a short effort to produce significant results? Or, is it something that justifies sustained effort to produce a major benefit? In either case, are the benefits lasting?