



NETWORKS

www.matecnetworks.org

2009 Needs Analysis Survey

MATEC NetWorks is a National Science Foundation-funded Resource Center that would like to better understand your current and future teaching and learning needs.

1. Please check the applicable boxes regarding the topics below:

	Would Like More Resources/Info	Have Resources/Info to Share	Interested in Prof. Development
Advanced Technologies			
Alternative/Renewable Energies	9	5	9
Automation/Robotics	15	3	6
Electronics	18	7	6
Manufacturing Technologies	19	2	8
Mechatronics	20	6	8
Micro- and Nanotechnologies	20	9	6
Energy Utilization	23	2	8
Semiconductors	26	6	10
Sustainable/Green Technologies	29	6	10

Additional areas of interest/details: Solar, Computer Science, 3D modeling, Basic Science, GPS/GIS Technology

Teaching & Learning			
Creating Authentic Assessments	11	3	3
Delivering Distance Learning	11	4	4
Developing Certification Programs	12	3	5
Developing Experiential Learning Activities	15	3	5
Developing/Using Learning Objects	16	4	4
Evaluating Learning Outcomes	17	2	5
Facilitating Self-directed Learning	19	5	4
Generational Learning	20	5	2
High Tech Career Exploration	20	3	5

Additional areas of interest/details: None

Program Building			
Customizing Business/Industry Training	9	4	1
Improving Developmental Education	11	5	3
Engaging K-12	12	4	1
Engaging Currently Employed Students	13	4	4
Recruiting Diverse Student Populations	17	5	3
Sustaining Technical Programs	23	3	2

Additional areas of interest/details: None

2. What is your ideal blend of activities in your classroom? (Must add up to 100%)

39% Face-to-Face	14% Team Assignments/Projects
12% Online Self-directed Lecture	24% Lab Activities
7% Independent Study	4% Other

3. How many students do you teach, in areas related to this conference, per year? 2,855

4. How do you currently obtain or learn about materials and information that supports your teaching and/or professional development activities?

	Often	Sometimes	Never
Internet Sites	27	14	0
Trade Journals/Magazines/Newsletters	10	25	3
Online Forums (blogs, listservs, podcasts)	5	18	15
Social Networking Sites	4	11	23
Webinars (web seminars)	10	20	9
Conferences/Workshops	21	19	0

5. How do you prefer to receive information?

	Preferred	Neutral	Not Preferred
Electronic Newsletters/Announcements	42	2	0
Postal Mail	3	20	7
Telephone	1	7	20

6. How can the Resource Center help to ensure the success of your students?

- Idea database of activities to incorporate.
- Provide more entry-level (Gr 7-10) materials
- Provide learning resources
- Give information to them directly
- Providing updated resources
- Provide workshops
- Provide learning materials on emerging technologies
- Reach the students with cool multimedia