

Surface Mount Technology Association



An Affiliated Partner of

MentorNet



Overview

SMTA's Mission

- The SMTA membership is an international network of professionals who build skills, share practical experience and develop solutions in electronic assembly technologies, including microsystems, emerging technologies, and related business operations.
- The **mission of SMTA Student Chapters** is to build a network of students and professionals, while creating learning opportunities for students to develop skills and knowledge necessary for work in the electronic industry.

MentorNet's Mission

- To enhance engineering and related sciences, by promoting the progress of minorities through the use of a dynamic, technology-supported mentoring network.
- To advance individuals and society, and enhance engineering and related sciences, by promoting a diversified, expanded and talented global workforce.

"The MentorNet experience showed me the broad range of career options that exist. My mentor also showed me how important it is to have a strong scientific background."

From Mission to Vision & Implementation

A sustainable, nonprofit, large-scale, research-based, global online mentoring network for STEM:

20,935 pairs
since 1998
(as of 1/24/08)

MentorNet Community

20,693 active
members
(as of 1/24/08)

*One-on-One
Program*

*MentorNet
News*

*Resume
Database*

E-Forum

*Resources
& Links*

MentorNet's One-on-One Program: How Does It Work?

- Protégés: undergraduate & graduate students, postdocs, and early career faculty
- Mentors: professionals working in industry, government, and higher education
- Structured mentoring relationships are conducted via email, last for 8 months, and supported with:
 - Online profiles & information
 - Bi-directional matching algorithms
 - Online training
 - Guides
 - Interactive online case studies
 - Email “coaching”
 - Tailored suggested topics
 - Program manager support
 - Online program evaluation via survey

**part of MentorNet's patent-pending systems*

Why Mentoring?

“I joined MentorNet to connect with other engineering professionals, those who have “been there - done that”. I wanted a mentor who has worked in industry and to whom I could go for guidance and input.”

Tania Oogarah, protégé

Electrical Engineering Graduate Student
University of Waterloo, Ontario, Canada

“MentorNet is a great opportunity for me to help give back to others within the electronics industry. By sharing my experiences I hope to pass along a passion for technology development, innovation, and collaboration.”

Matt Kelly, P. Eng, MBA; Tania’s mentor
Senior Engineer, IBM Corporation



SMTA - committed to linking students to the industry

MentorNet Coaching: Sample Discussion Topics

(varies by protégé educational level)

- Getting Acquainted
- Setting Goals
- Email Schedules
- Mentoring Tips
- Class Selection
- Diversity and E-Mentoring
- Study Tips
- Time Management
- Self Confidence
- Financial Aid
- Resume
- Job Search
- Internships
- Gender Issues
- Managing Stress
- Perseverance

An SMTA Member's Perspective . . .

"I became active in MentorNet about nine years ago. I've gotten insights on how to communicate with Gen Y colleagues, learned about technology advances my protégés are researching, and been buoyed by their enthusiasm.

I've found that in just a few hours per month, my protégé and I can build a relationship that encourages personal and professional development. When I'm traveling, I can either continue our email discussion or let my protégé know that I'll be out of contact for a short time.

MentorNet and the SMTA are both great ways to build your network. Now that the SMTA is an Affiliated Partner with MentorNet, I look forward to being matched with SMTA student members. These relationships will be as rewarding for me as for my protégés."

**Marie S. Cole, SMTA Board of Directors
Distinguished Engineer, Lead Free Program Manager
Electronic Card & Interconnect Engineering
IBM Integrated Supply Chain**



Thanks to MentorNet's 2007-08 sponsors:

- 3M* Foundation
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- IBM Corporation
- Intel Foundation
- Land O'Lakes
- Lockheed Martin Space Systems
- Los Alamos National Laboratory
- National Science Foundation
- Naval Research Laboratory
- NVIDIA
- Sandia National Laboratories
- S. D. Bechtel, Jr. Foundation
- Texas Instruments*
- The MathWorks, Inc.
- Thomson West

***To find SMTA Corporate Members and Chapters on the SMTA.org website,
[click here](#)**

The First Steps to Get or Become a Mentor:

Go to <http://MentorNet.net>

Click on “Sign Me Up”

Be sure to indicate **SMTA Membership**
in your profile!

 **MentorNet**[®]
One-on-One Mentoring Programs

are you?



Interested in working in engineering, science, technology, or math?

Interested in or pursuing an academic career in engineering, science, technology, or math?

Find a Mentor!

[Learn More](#)



A professional with a degree OR background in engineering, science, technology or math?

A tenured engineering or science faculty member?

Be a Mentor!

[Learn More](#)

Join the MentorNet Community . . .

MentorNet Community Registration

In order to participate in MentorNet's One-on-One Programs, you must first join the MentorNet Community. If you are already a member of the MentorNet Community, [sign in here](#).

To join the MentorNet Community, please choose a UserName and Password, and supply us with your name and a valid email address below. (See [Demo of Community](#).)

Immediately after completing this form, you can choose to create either a **mentor** or **protégé** profile for the One-on-One E-Mentoring Program, or to simply enter the Community and begin using its features.

*Required Fields

Fill in the required information

Already a member? [Sign in now.](#)

*UserName:

*Password:

*Retype Password:

*First Name

*Last Name

*Email Address

*Retype Email Address:

I have read and agree to abide by the MentorNet [Terms of Service](#).

Then click to Join

Join the MentorNet Community

Create a profile . . .

Employment Information

How many years of professional work experience do you have?

None
 0-1 years
 1-3 years
 3-5 years
 5-10 years

Education Level of Protégé

Community College
 1st/2nd year Undergraduate
 3rd/4th/5th year Undergraduate
 Master's Degree candidate
 MBA candidate
 Doctoral candidate
 Postdoctoral candidate

Topic Information

Please rate how comfortable you feel discussing each of the following topics with a student. These will be used to help match you with a student.

*General Support - Share my experiences with a student and serve as a mentor.

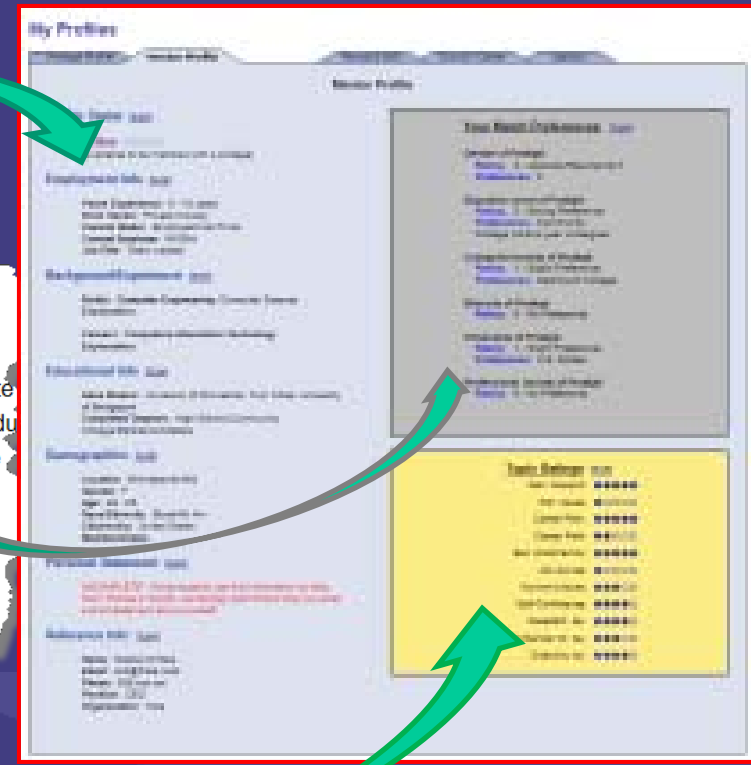
<-- Not At All Comfortable Very Comfortable -->

*School and Research Issues - Provide support around academic and research, choosing research areas, writing grants, etc).

<-- Not At All Comfortable Very Comfortable -->

*Career Perspective - Provide student with an increased understanding of the industry.

<-- Not At All Comfortable Very Comfortable -->



The screenshot shows a web interface titled "My Profile". It contains several sections:

- Personal Info:** Name, Address, Phone, Email, etc.
- Employment Info:** Current Employer, Title, Industry, etc.
- Background/Experience:** A list of past employers and roles.
- Education Info:** Degree type, Institution, Graduation Date, etc.
- Interests:** A list of topics with radio buttons for selection.
- Topic Ratings:** A table with columns for "General Support", "School and Research Issues", and "Career Perspective", each with a row of radio buttons for rating.

 Green arrows from the form elements point to these sections:

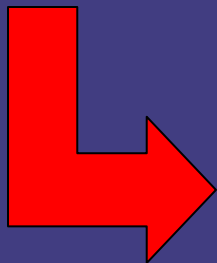
- From "Employment Information" to the "Employment Info" section.
- From "Education Level of Protégé" to the "Education Info" section.
- From "Topic Information" to the "Interests" and "Topic Ratings" sections.

Include SMTA in your profile . . .

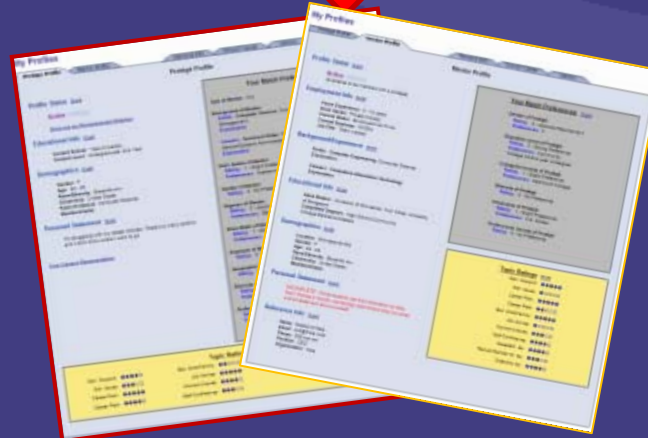
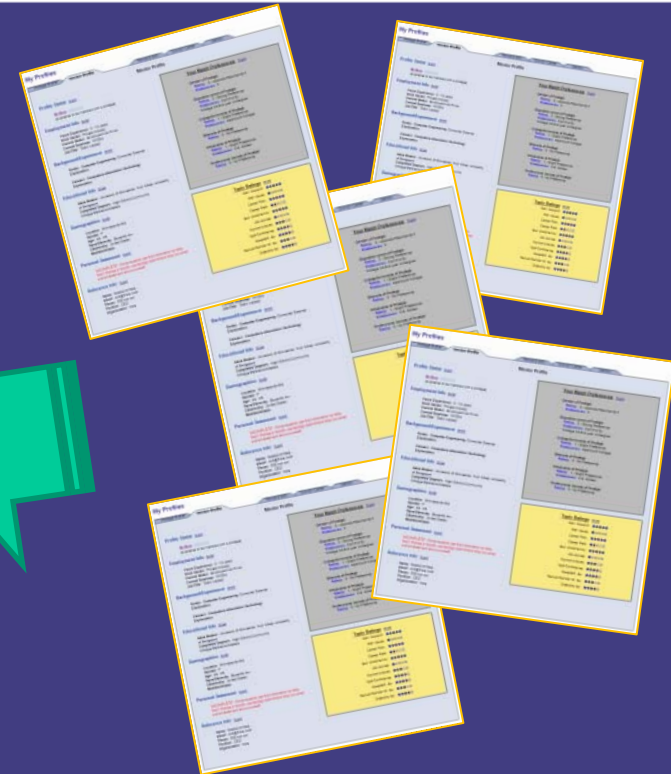
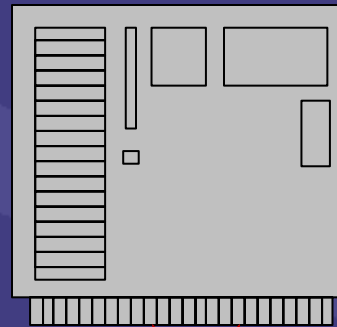
Demographic Information

Please check all professional societies and special projects to which you belong (**Affiliated Plus Partners and Special Projects are marked in blue**):

- Air and Waste Management Association (A&WMA)
- American Institute for Medical and Biological Engineering (AIMBE)
- American Physiological Society (APS)
- Anita Borg Institute for Women and Technology (ABI)
- Association for Computing Machinery (ACM)
- Association for Women in Science (AWIS)
- Biotechnology Institute
- Eastern Alliance in Science, Technology, Engineering, and Mathematics (EAST)
- Forum on Industrial & Applied Physics of The American Physical Society (FIAP)
- International Society for Computational Biology (ISCB)
- Makocha Minds Mentor Program
- Mathematics Research Communities Project
- Minnesota High Tech Association (MHTA)
- National Organization of Gay and Lesbian Scientists and Technical Professionals (NOGLSTP)
- National Society of Black Physicists (NSBP)
- Sigma Delta Epsilon, Graduate Women in Science, Inc. (GWIS)
- Sigma Pi Sigma
- Society for Advancement of Chicanos and Native Americans in Science (SACNAS)
- Society of Physics Students
- Student Pugwash USA
- Surface Mount Technology Association (SMTA)
- Women in Engineering ProActive Network (WEPAN)



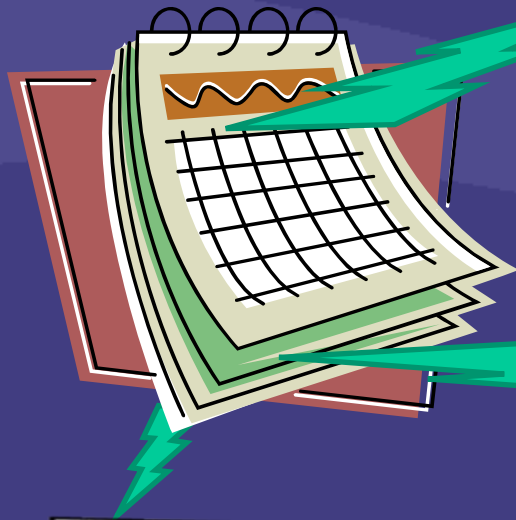
Wait for your match . . .



Connect with your mentor / protégé . . .



Receive e-mail coaching throughout the mentoring relationship . . .



Getting Started:

We recommend sending an email to your protégé within three days to introduce yourself. If you do not hear from your protégé within a few days, we suggest sending the message again as firewalls and misspelled email addresses can occasionally hinder initial contact.

We encourage you to spend several email messages in the beginning to learn what you have in common with your protégé, sharing your interests, and discussing your goals for your new e-mentoring relationship.

Setting Goals for Yourself

Setting Goals for Yourself

If it interests you, we encourage you to take a moment to reflect on any personal goals you wish to set. Other than reaping the benefits of being a mentor (the rewards for reaching out to others, etc.), is there anything you wish to develop? Are you interested in improving your mentoring skills? Communication skills? Leadership? Are you seeking greater self-awareness through mentoring of another? Fresh perspectives? Continued learning? Determining some goals toward personal development can benefit even greater from your e-mentoring relationship.

As you probably know, but your protege may not, a curriculum vitae (CV) and resume are two ways to track your career, but look very different and have very different purposes.

You may want to ask your protege to exchange resumes or CVs. This will allow you and your protege to get to know one another better and gives you the opportunity to offer tips on creating an effective CV or resume.

We referred your protege to the links section on our website (www.mentor.net/community/resources/links/links.aspx), especially the part on Career Guidance and Job Search Advice.

**We hope you enjoy
your experience as a
MentorNet
mentor or protégé!**

*If you have any questions about this volunteer opportunity for
SMTA members, please contact Karen at
karen@smta.org or call 952-920-7682*