E-mentoring and individuals with disabilities
by Sheryl Burgstahler, Ph.D.

Most of us can think of people in our lives, more experienced than ourselves, who have supplied information, offered advice, presented a challenge, initiated friendship, or simply expressed an interest in our development as a person. Without their intervention we may have remained on the same path, perhaps continuing a horizontal progression through our academic, career, or personal lives.

The term “mentor” has its origin in Homer’s Odyssey when a man named Mentor was entrusted with the education of the son of Odysseus. “Protégé” refers to the person who is the focus of the mentor. Today, mentoring is associated with a variety of activities including teaching, counseling, sponsoring, role modeling, job shadowing, academic and career guidance, and networking.

DO-IT Mentors are valuable resources to their protégés in DO-IT (Disabilities, Opportunities, Internetworking, and Technology) programs. Most Mentors are college students, faculty, practicing engineers, scientists, or other professionals who have disabilities. Protégés are participants in the DO-IT Scholars or Pals program as well as DO-IT-sponsored projects such as AccessComputing and AccessSTEM. These students are making plans for postsecondary education and employment. They all have disabilities, including vision, hearing, mobility, health impairments, and specific learning disabilities. Frequent electronic communications and personal contacts bring DO-IT protégés and Mentors together to facilitate academic, career, and personal achievements.

Introducing protégés to mentors with similar disabilities is a strength of DO-IT. As reported by one protégé, she had never met an adult with a hearing impairment like hers before getting involved in DO-IT: “But when I met him, I was so surprised how he had such a normal life, and he had a family, and he worked with people who had normal hearing. So he made me feel a lot better about my future.”

Participants learn strategies for success in academics and employment. Mentors provide direction and motivation, instill values, promote professionalism, and help protégés develop leadership skills. As one Scholar noted, “It feels so nice to know that there are adults with disabilities or who know a lot about disabilities, because I think that people who are about to go to college or start their adult life can learn a lot from mentors....” As participants move from high school to college and careers they too become Mentors, sharing their experiences with younger participants.

There are probably as many mentoring styles as there are personality types and no one can be everything to one person. Each DO-IT participant benefits from contact with several Mentors.

While some in-person mentoring occurs, most mentoring in DO-IT takes place via the Internet. Through electronic communications and projects using the Internet, mentors promote personal, academic, and career success. Electronic communication eliminates the challenges imposed by time, distance, and disability that are characteristic of in-person mentoring. For example, participants who have speech impairments or are deaf do not need special assistance to communicate via email. Those who cannot use the standard keyboard because of mobility impairments use adaptive technology to operate their computer systems.
DO-IT Mentors offer Protégés...

**Information**—Mentors share their knowledge and experiences with protégés.

**Advice**—Mentors make suggestions to help protégés reach their academic, career, and personal goals.

**Challenges**—Mentors stimulate curiosity and build confidence by offering new ideas and opportunities.

**Contacts**—Mentors introduce their protégés to valuable academic, career, and personal contacts.

**Direction**—Mentors help protégés discover their talents and interests and devise strategies to attain their goals.

**Role Modeling**—Mentors accomplish many of these goals by letting their protégés know who they are.

**Support**—Mentors encourage growth and achievement by providing an open and supportive environment.

DO-IT encourages one-to-one communication between protégés and Mentors via email. It also facilitates communication in small groups through the use of electronic discussion lists. For example, one group includes both mentors and protégés who are blind. They discuss common interests and concerns such as independent living, speech and Braille output systems for computers, and options for displaying images and mathematical expressions.

While most communication occurs via email, some Mentors meet their protégés during summer study programs at the University of Washington and at other DO-IT activities across the United States. In-person contact strengthens relationships formed online.

DO-IT received national recognition with the Presidential Award for Excellence in Mentoring “for embodying excellence in mentoring underrepresented students and encouraging their significant achievement in science, mathematics, and engineering.” It was also showcased in the President’s Summit on Volunteerism and received the National Information Infrastructure Award “for those whose achievements demonstrate what is possible when the powerful forces of human creativity and technologies are combined.”

**Research**

DO-IT has been studying the nature and value of e-mentoring since 1993. Thousands of email messages have been collected, coded, and analyzed; surveys were distributed to Scholars and Mentors; and focus groups were conducted.

Preliminary findings suggest that computer-mediated communication can be used to initiate and sustain both peer-to-peer and mentor-protégé relationships. It can also alleviate barriers to traditional communications due to time and schedule limitations, physical distances, and disabilities of participants. Both young people and Mentors in the study actively communicate on the Internet and report positive experiences in using the Internet as a communication tool. The Internet gives these young people support from peers and adults otherwise difficult to reach, connects them to a rich collection of resources, and provides opportunities to learn and contribute. Participants note benefits over other types of communication. They include the ability to communicate over great distances quickly, easily, conveniently, and inexpensively; the elimination of the barriers of distance and schedule; the ability to communicate with more than one person at one time; and the opportunity to meet people from all over
the world. Many report the added value that people treat them equally because they are not immediately aware of their disabilities. Negative aspects include difficulties in clearly expressing ideas and feelings, high volumes of messages, occasional technical difficulties, and lack of in-person contact. There are gender differences in e-mentoring as well. For more information about the results of this study, consult the References section of this publication.

Preliminary findings of this study suggest that peer-to-peer and mentor-protégé relationships on the Internet perform similar functions in providing participants with psycho-social, academic, and career support. However, each type of relationship has its unique strengths. For example, peer-to-peer communication includes more personal information than exchanges between Mentors and protégés.

It is often reported in the literature that peer and mentor support can help students with disabilities reach their social, academic, and career potential. However, constraints imposed by time, distance, and disability make such relationships difficult to initiate and sustain. This study suggests that practitioners and parents should consider using the Internet as a vehicle for developing and supporting positive peer and mentor relationships.

**Getting Started**

Following are a few suggestions for new DO-IT Mentors.

- Get to know several protégés who have interests or disabilities similar to yours. What are his or her personal interests? Academic interests? Career interests?
- Introduce yourself to the group. Share your personal interests, hobbies, academic interests, and career path.
- Explore interests with protégés by asking questions, promoting discussion and pointing out resources such as websites.
- **DO-IT Protégés offer Mentors...**

  **A Chance to Share Strategies**—Mentors pass on hard-earned experiences. As reported by one Mentor, “I’ve been through this thing, I had a stroke and so on. And I find it incredibly gratifying to be able to share that with someone, and to be able to help someone else who’s going through some of the same things.”

  **Challenge**—Mentors develop their own personal styles for sharing their skills and knowledge via electronic communication.

  **Fun**—Mentors share in the lives of motivated young people. Listening to them, hearing about their dreams, helping them along the road to success—it’s fun!

  **New Ideas**—Mentors join an active community of talented students and professionals with a wide range of disabilities who are eager to share their own strategies for problem-solving and success.

  **Opportunities to Help Set Goals**—One Mentor explains, “I try to tell the DO-IT kids to listen to their hearts and think about what they really want to do. Don’t listen to people who say no, you can’t do this or that, or you should be thinking only about this kind of work; just think about what you really want to do, what turns you on, and go for it.”

- Encourage participation in DO-IT activities and try to attend activities when possible. Mentor-protégé relationships are strengthened through face-to-face contact!
- Facilitate contact between students and people with shared interests or resources (e.g., professors, professionals, service providers, friends).
References


Video
A short video, Opening Doors: Mentoring on the Internet, may be freely viewed at www.uw.edu/doit/Video/opendr.html or purchased in DVD format.

About DO-IT
DO-IT (Disabilities, Opportunities, Internetworking, and Technology) serves to increase the successful participation of people with disabilities in challenging academic programs and careers. Primary funding for DO-IT is provided by the National Science Foundation, the State of Washington, and the U.S. Department of Education.

For further information, to be placed on the DO-IT mailing list, request materials in an alternate format, or to make comments or suggestions about DO-IT publications or web pages, contact:

DO-IT
University of Washington, Box 354842
Seattle, WA 98195-4842
doit@uw.edu
www.uw.edu/doit/
206-685-DOIT (3648) (voice/TTY)
888-972-DOIT (3648) (toll free voice/TTY)
509-328-9331 (voice/TTY) Spokane
206-221-4171 (fax)
Founder and Director: Sheryl Burgstahler, Ph.D.

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Grants and gifts fund DO-IT publications, videos, and programs to support the academic and career success of people with disabilities. Contribute today by sending a check to DO-IT, Box 355670, University of Washington, Seattle, WA 98195-5670.

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