INTERNATIONAL

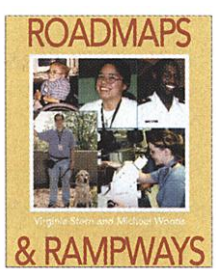
Success Stories of Students with Disabilities Noted in New Book

Since 1996, the ENTRY POINT! internship program run by the American Association for the Advancement of Science has paved the way for students with disabilities to launch academic and professional careers in science and engineering.

Next month, a newly published book chronicles the personal and educational journeys of three dozen of those students, showing how they bridged the gap between societal constraints and scientific pursuits. It also shows how the students were helped by assistive technologies, supportive mentors and families, and legislation that opened higher education to people with disabilities.

The book, *Roadmaps & Rampways: Profiles of Students With Disabilities in Science, Engineering, and Technology*, focuses on useful strategies for translating educational skills into the workplace, said Virginia Stern, director of the AAAS Project on Science, Technology and Disability, which administers the ENTRY POINT! program. But Stern, who co-authored the book with science writer Michael Woods, cautioned that no "one-size-fits-all" approach accounts for successful transitions beyond the classroom.

"That is why we called the book *Roadmaps & Rampways*, because there was no map for these students or families to follow," she said.



A new book examines successes of students with disabilities.

After interviewing students, faculty, counselors, families, and employers, Stern and Woods concluded that the technological, supportive, and legislative factors crucial to success were present in all students interviewed, but had different effects. "All of these ingredients had to interact for each student, but they couldn't be generalized to a common formula because there is so much variation between students with disabilities," Stern said.

Started 5 years ago, ENTRY POINT! continues the legacy begun in 1975 by the AAAS Project on Science, Technology, and Disability, which launches and sustains programs to help people with disabilities start and continue careers in science and engineering. The Project—part of the Directorate for Education and Human Resources Programs—was initiated during a decade in which new federal laws stated that all students with disabilities were entitled to appropriate support services for education.

In 1990, with a grant from the National Science Foundation's Engineering Directorate, Stern and her colleagues began examining recruitment and retention levels of students and academics with disabilities. They soon found that the same legislation making higher education possible for people with disabilities didn't translate into employment opportunities, and that internship and co-op programs could help correct this problem—at the same time that NASA and IBM officials wanted to diversify their workforce.

Forming a partnership with AAAS, which screened and matched college students, the organizations in 1996 launched ENTRY POINT! and have since been joined by DuPont, Lucent Technologies, the National Science Foundation, Procter & Gamble, Seagate Technologies, and Texas Instruments. The program, which in its first year placed half a dozen students, has since made nearly 250 placements—21 of whom have been hired fulltime.

Among them is Chris Lamoreaux, who while studying mechanical engineering at Tufts University had ENTRY POINT! internship and co-op experiences at NASA's Johnson Space Center. Born with a disability called osteogenesis imperfecta, a condition known as "brittle bones," he was encouraged by his family and fueled by intellectual curiosity, and excelled in school at science and math. Now a full-time engineer at NASA, Lamoreaux claims he wouldn't be there were it not for the AAAS program.

"ENTRY POINT! got my foot in the door," he said. "The whole experience was an opportunity to learn about the real world and allowed me to make the connections to ultimately get a job at NASA."

Echoing that sentiment is Tim Scamporinno, a computer science major at Sonoma State University who interned at IBM Global Services and is now a Technical Services Manager. Tim, who is quadriplegic and uses a wheelchair, recalled that when applying for internships most organizations dwelt on his disability. But, he said, "ENTRY POINT! and IBM really focused on my talents."

In fact, Stern observed, the scientific community may be the biggest beneficiary of the program. "This is an untapped and overlooked resource that can make large contributions to the fields of science and engineering," she said.

For more information, e-mail Virginia Stern at vstern@aaas.org.

—PEGGY DILLON AND ERIC GRAMMER

AAAS Members Elected as Fellows

In September the AAAS Council elected 288 members as Fellows of AAAS. These individuals will be recognized for their contributions to science at the Fellows Forum to be held on 16 February 2002 during the AAAS Annual Meeting in Boston. The new Fellows will receive a certificate and a blue and gold rosette pin as a symbol of their distinguished accomplishments. Presented by section affiliation, they are:

Agriculture, Food, and Renewable Resources

Elton D. Aberle, Univ. of Wisconsin, Madison • Walter J. Armbruster, Farm Foundation, Oak Brook, IL • Barbara P. Glenn, Federation of Animal Science Societies, Bethesda, MD • Anthony H. C. Huang, Univ. of California, Riverside • F. Thomas Ledig, Institute of Forest Genetics, Placerville, CA • Owen J. Newlin, Des Moines, IA • Herbert W. Ohm, Purdue Univ. • Bennie I. Osburn, Univ. of California, Davis • Sonny B. Ramaswamy, Kansas State Univ. • K. Ramesh Reddy, Univ. of Florida • Philip A. Roberts, Univ. of California, Riverside • Gary H. Toenniessen, Rockefeller Foundation • Sant S. Virmani, International Rice Research Institute, Makati City, Philippines

Anthropology
Ralph M. Garruto, State Univ. of New York, Binghamton • John H. Relethford, State Univ. of New York, Oneonta • Pat Shipman, Pennsylvania State Univ. • Sarah Williams-Blangero, Southwest Foundation for Biomedical Research, San Antonio, TX

Astronomy
Bruce Balick, Univ. of Washington • Richard F. Green, Kitt Peak National Observatory, Tucson, AZ • William K. Hartmann, Planetary Science Institute, Tucson, AZ • Kenneth J. Johnston, U.S. Naval Observatory, Washington, DC • Yervant Terzian, Cornell Univ. • Trevor C. Weekes, Whipple Observatory, Amado, AZ

Atmospheric and Hydrospheric Sciences
Ellen R. M. Druffel, Univ. of California, Irvine • David Halpern, Jet Propulsion Lab., Pasadena, CA • Charles A. Knight, National Center for Atmospheric Research, Boulder • Ronald G. Prinn, Massachusetts Institute of Technology • David A. Randall, Colorado State Univ.

Biological Sciences
Donna Jeanne Arndt-Jovin, Max Planck Institute for Biophysical Chemistry, Göttingen, Germany • James G. Baldwin, Univ. of California, Riverside • Amiya K. Banerjee, Cleveland Clinic Foundation • Kamaljit S. Bawa, Univ. of Massachusetts, Boston • Philip A. Beachy, Johns Hopkins Univ. • Caroline Shafer Bledsoe, Univ. of California, Davis • Carol L. Boggs, Stanford Univ. • David Wayne Bolen, Univ. of Texas Medical Branch, Galveston • Michael R. Botchan, Univ. of California, Berkeley • Richard C. Brusca, Univ. of Arizona • Barbara Kathryn Burgess, Univ. of California, Irvine • Mario Renato Capecchi, Univ. of Utah • Sean B. Carroll, Univ. of Wisconsin, Madison • Deborah A. Clark, Univ. of Missouri, St. Louis • Diane W. Davidson, Univ. of Utah • Carol A. Erickson, Univ. of California, Davis • John Faaborg, Univ. of Missouri, Columbia • Mark H. Ginsberg, Scripps Research Institute, La Jolla, CA • Brian J. Hales, Louisiana State Univ., Baton Rouge • Gonzalo Halffter, Instituto de Ecologia, Veracruz, Mexico • R. Scott Hawley, Univ. of California, Davis • John B. Hays, Oregon State Univ. • Lewis A. Jacobson, Univ. of Pittsburgh • Philip Hung-Sun Jen, Univ. of Missouri, Columbia • Linda Jen-Jacobson, Univ. of Pittsburgh • Russell L. Jones, Univ. of California, Berkeley • Sammy William Joseph, Univ. of Maryland, College Park • Kazuhiko Kinosita Jr., Keio Univ., Yokohama, Japan • Hynda K. Kleinman, National Institute of Dentistry and Craniolfacial Research • Irving L. Kornfield, Univ. of Maine, Orono • Stephen C. Kowalczykowski, Univ. of California, Davis • Alan M. Lambowitz, Univ. of Texas, Austin • James Ching Lee, Univ. of Texas Medical Branch, Galveston • Barry R. Lentz, Univ. of North Carolina, Chapel Hill • Robert L. Lester, Univ. of Kentucky • Paul A. Loach, Northwestern Univ. • Martha L. Ludwig, Univ. of Michigan, Ann Arbor • Michael E. Maguire, Case Western Reserve Univ. • John L. Markley, Univ. of Wisconsin, Madison • Bettie Sue Masters, Univ. of Texas, San Antonio • David B. McKay, Stanford Univ. • Sandra D. Michael, State Univ. of New York, Binghamton • Scott Everett Miller, National Museum of Natural History • Diana G. Myles, Univ. of California, Davis • Shahid Naeem, Univ. of Washington • Reed F. Noss, Conservation Science, Inc., Corvallis, OR • Lynne R. Parenti, National Museum of Natural History • Mary V. Price, Univ. of California, Riverside • Paul Primakoff, Univ. of California, Davis • Curtis J. Richardson, Duke Univ. • James A. Spudich, Stanford Univ. • Fern Tablin, Univ. of California, Davis • Cindy Lee Van Dover, College of William and Mary • Michael Vecchione, National Marine Fisheries Service • Nickolas M. Waser, Univ. of California, Riverside • Eric Westhof, Univ. Louis Pasteur, Strasbourg, France • Sue Hengren Wickner, National Cancer Institute • Charles F. Yocum, Univ. of Michigan, Ann Arbor

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