



NOT SO MAD SCIENCE A Potion for Success!

Presented by the
Wisconsin Parents of Blind Children
and the
National Federation of the Blind of Wisconsin



- ⚡ **Has your child been excluded from science class?**
- ⚡ **Not sure how they will be able to do chemistry?**
- ⚡ **What about the medical field? Are there job opportunities?**

We are going to show you how.

Learn from the experts! You will be able to take this back to their teachers and say "Yes We Can"!



Friday, April 23, 2010
8:00 AM to 4:00 PM
RADISSON PAPER VALLEY HOTEL
333 West College Avenue, Appleton, WI 54911



Registration: Adults \$25 - Children \$20

**Receive a \$5 discount per person when you preregister online at
www.nfbwis.org before April 15th.**

Scholarships available – Contact Andrea at 608-563-4708.

Lunch, childcare, and children's programs included

While you are learning how your children can participate in science our kids will be able to participate in real science experiments and learn firsthand that they can participate in the science classroom! We will be able to watch and see them smile and enjoy experimenting.

Join us for a day of information, inspiration, and new ideas. Come meet new families and blind/visually impaired adults. After the seminar stay and enjoy our other events which are a part of our annual convention. Student issues, blind vendors, DVR, and technology will all be discussed in this jam packed weekend.

Register at www.nfbwis.org - Call Andrea Beasley at 608-563-4708 for questions.



Voice of the Nation's Blind



Guest Speakers

- Marilyn Winograd is dually certified, Elementary Education (K-8) as well as Teacher of the Blind and Visually Impaired. She worked for many years as an itinerant Education Consultant for the New Jersey Commission for the Blind and Visually Impaired.

After leaving the Commission, she worked with a high school student in NJ who recently lost his vision. In working with this exceptional student, Marilyn became involved in collaborating with classroom teachers to fully integrate a blind student into laboratory science classes.

Now, she does private consulting, early intervention, Braille instruction, materials preparation and teacher training.

- Dr. Lillian A. Rankel received a PhD from Princeton University in Chemistry and worked as a research chemist for Mobil. When Mobil closed, she became a high school Science Teacher at Hopewell Valley High School in Pennington, NJ, and has taught Chemistry to a blind student for 2 years.
- Both Lillian and Marilyn are on the ILAB (Independent Laboratory Access for the Blind <http://ilab.psu.edu>) team from Penn State University, which is funded by the National Science Foundation. The team is researching ways to modify equipment so blind students can be fully integrated in the classroom and laboratory. Lillian and Marilyn are also developing tactile methods for representing science concepts (www.MDWEducationalServices.com).

They have presented hands-on science workshops for blind and VI students and parents at National Federation of the Blind conventions as well as teacher training sessions at various state AER conferences and at the University of Wisconsin.

This past summer, Marilyn and Lillian traveled to Kenya to conduct a one-week workshop for teachers at the Thika High School for the Blind. The goal of this workshop was to teach the teachers how to teach Chemistry and Physics to totally blind students.

- Cary Supalo was encouraged to study chemistry through support from friends and faculty members at Purdue University. After graduating with a BS in Chemistry from Purdue in the spring of 1999, he started graduate studies at Penn State that fall. Cary obtained his Masters of Science degree in Chemistry from Penn State in December 2004.

Cary's Ph.D. thesis project is a National Science Foundation funded project from the Research in Disabilities Education (RDE) where he is developing accessible tools and techniques to assist blind students in performing high school level chemistry laboratory experiments. Taking widely available lab probes and their software interface and making them accessible via speech output eliminates the traditional passive role of previous generations, i.e., a sighted assistant simply describing and reading data values as they are obtained. It is his hope that this will encourage blind students to want to study science and pursue careers in science, technology, engineering, and math (STEM). He uses a software interface called Logger Pro, which allows a student to use a hub device to which they can plug in multiple lab probes such as thermometers, pH meters, and conductivity detectors, among numerous other tools. Having these tools coupled with the JAWS screen reader software will allow for blind students to more actively interface with their data collection experience. This is Cary's current passion of opening new doors of opportunity for blind students in the chemical sciences.

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