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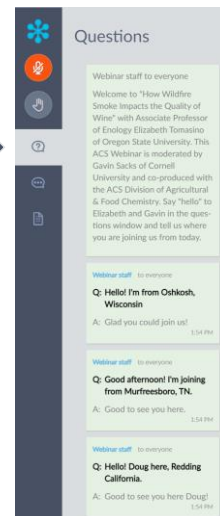
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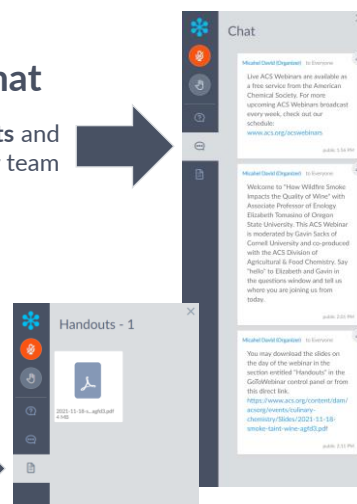
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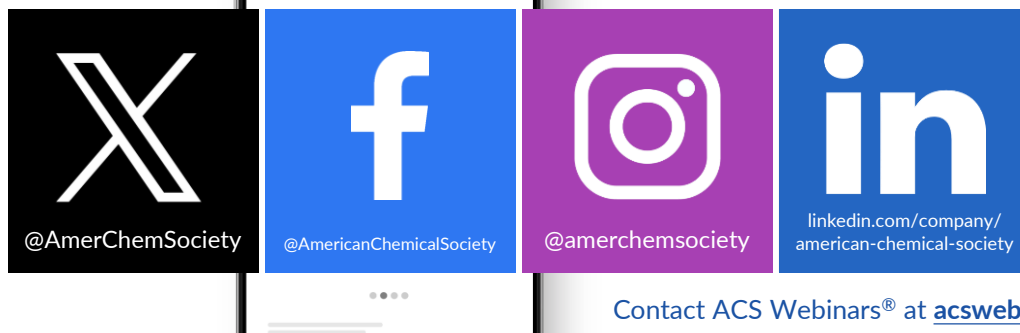


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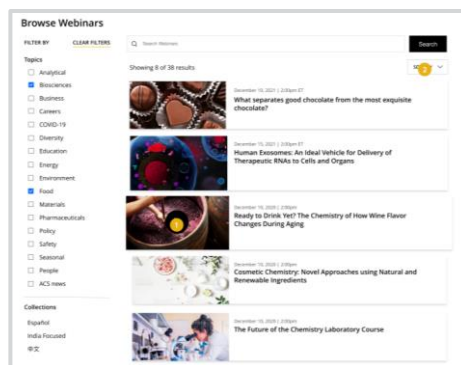
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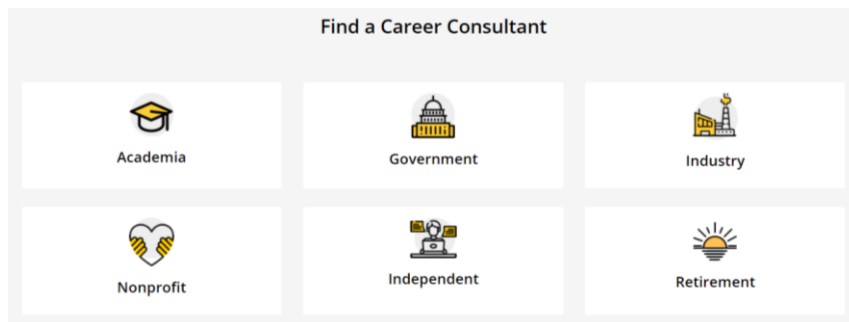


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BS, Massachusetts Institute of Technology, June 2021
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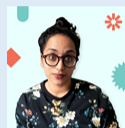
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Carolyn Bertozzi and K. Barry Sharpless chat about sharing the 2022 Nobel Prize in Chemistry
December 6, 2022



Bonus Episode
Bioorthogonal, click chemistry clinch the Nobel Prize
October 5, 2022



Episode #46
Lithium mining's water use sparks bitter conflicts and novel chemistry
September 13, 2022



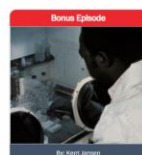
Bonus Episode
Happy 100th birthday, John Goodenough!
For John Goodenough's 100th birthday, Stereo Chemistry revisits a fan-favorite interview with the renowned scientist
July 25, 2022



Bonus Episode
Jess Wade on Wikipedia and work-life balance
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Bonus Episode
The sticky science of why we eat so much sugar
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There's more to James Harris's story
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Personal Career Consultations

Jim Tung
Assistant
 Lecturer-Laboratories

S.L. Biochemistry, University of Oregon
 Ph.D., Organic Chemistry, University of Notre Dame

Jim Tung works at Lacamas Laboratories in Portland, OR, currently as a business development manager. He has been with Lacamas for 10 years, working on developing new chemical manufacturing projects. Before that, he was a senior research chemist at Orlite Research in Champaign, IL, performing kilo-scale organic chemistry.

An Oregon native, Jim got his B.S. in biochemistry from the University of Oregon, his Ph.D. in organic chemistry from the University of Notre Dame, with postdoctoral experience at Pfizer's laboratories in La Jolla, CA. He is past chair of the Portland Section of the American Chemical Society and was 2019 general co-chair of NORM 2019. He has interests in process chemistry, labor economics, social media outreach and encouraging career exploration and development for younger chemists.

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Respect
Ensures that each person is treated with professionalism, integrity, and ethics underpinning all interpersonal interactions.

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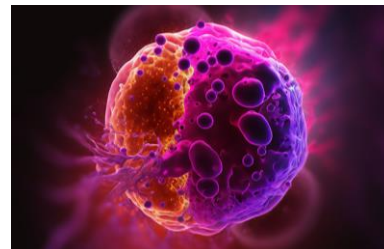
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Inclusive Science: Making STEM Accessible for Everyone



BRADLEY DUERSTOCK, PhD

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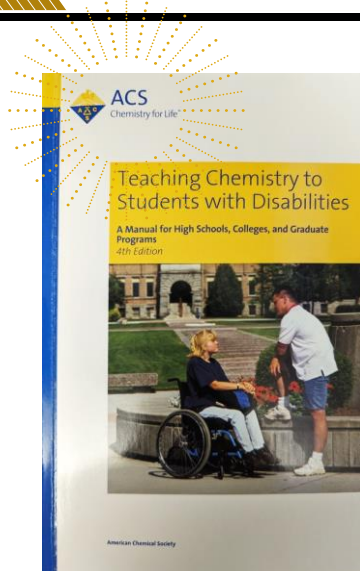
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Inclusive Science

Brad Duerstock, Ph.D.
Professor of Practice

Weldon School of Biomedical Engineering
School of Industrial Engineering
Dept. of Basic Medical Sciences, College of Veterinary Medicine, *courtesy*
Dept. of Health and Kinesiology, College of Health and Human Sciences, *courtesy*

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Inclusive Science

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Weldon School of Biomedical Engineering

School of Industrial Engineering

Dept. of Basic Medical Sciences, College of Veterinary Medicine, *courtesy*
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Why is diversity important?

Society benefits from participation of all groups of citizens.

- 20% of population has a disability many are under- or unemployed due to inaccessibility.
- At times fulfills is a national imperative in labor.
- Vocational rehabilitation needs to expand to all labor areas including STEM fields.



US Department of Labor, 1951



Gilbreth and Gilbreth, 1920

“The injured man must be made to feel that he is not an object of charity, but that he is a handicapped contestant in the world of active people.” -Frank and Lillian Gilbreth, 1920¹

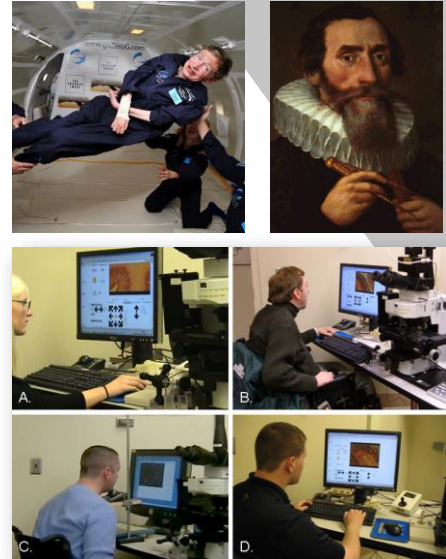
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STEM Benefits from Our Contributions

Disability grants unique insights in science and its practice as well as novel ways of perceiving and interacting with the world.

- Notable PWDs have made profound contributions to science.
- 'Lived experiences' provide important insights into medicine and other fields.
- Promote technological advancements
- Alternative methods of interaction with data and lab tools.



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Next Steps??

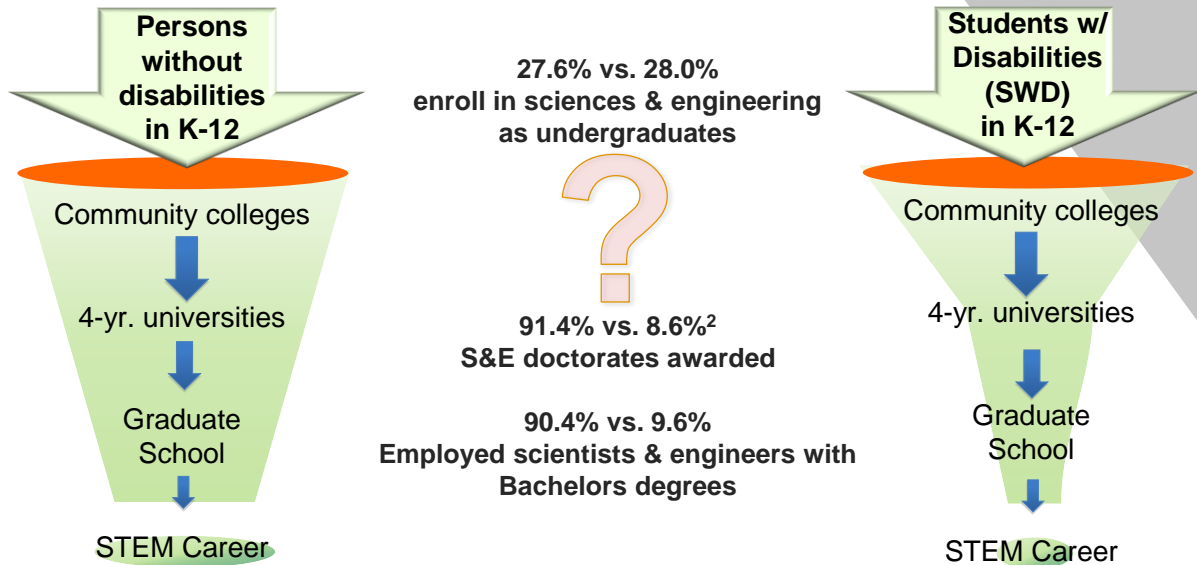
- STEM inclusion involves more than just accessibility.
- Adequate accommodations may involve architectural access, assistive technologies (AT), or alternative working conditions (teleconferencing, extended time, etc.).
- Inclusion like universal design does not need to exclude others.
- There is no one solution. Every student or employee with a disability has unique challenges.

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Attrition of SWD Pursuing STEM

PURDUE
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IAS Institute for Accessible Science

PURDUE
UNIVERSITY

IAS was established through the NIH Director's Pathfinder Award to facilitate practical or "hands-on" lab research, which is challenging for those with mobility and sensory impairments.

Core premises of IAS:

1. Activity-based learning is critical to STEM education.³
2. Students with physical disabilities often stay away from lab-based undergrad courses due to perceived barriers.^{4,5}
3. Independent research necessary for graduate students, postdocs and often undergraduate students.⁶
4. Understanding how lab equipment works is essential to experimental research design.⁷

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Architectural Access in the Lab

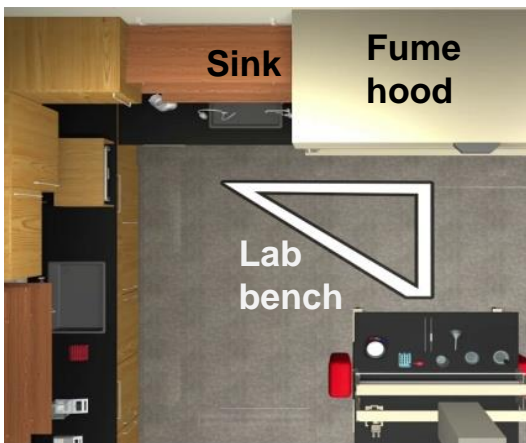


Adjustable-height lab benches, fume hoods, and sinks foster greater independence for students with disabilities in biomedical “wet” labs.⁸

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Architectural Access in the Lab



- Work triangle of frequently used stations decreases travel time and energy of users.^{8,9}
- Reconfigurability of lab stations provides flexible workspaces.
- Overhead fixtures provide flexible use.

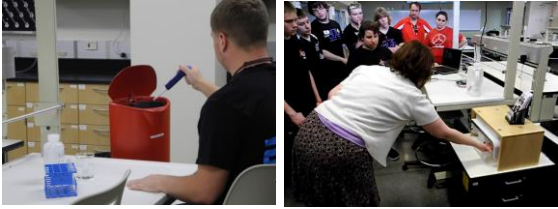
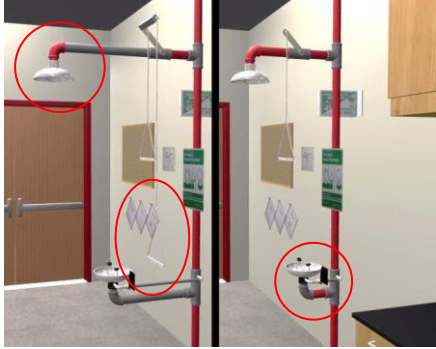
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Lab Safety



- Accessible emergency shower & eye wash stations
- Clear signage indicating exits and safety equipment
- Motion-sensor Sharps containers, waste cans, and soap & paper towel dispensers are “hands-free” & decreases contamination
- Provide alternative formats for safety documentation






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Accessible Lab Tools



Low Vision Accommodations for Veterinary Tasks ¹⁰	Pros and Cons
Microscope with video camera for histology and cytology 	↑ Intuitive to use. ↓ Smaller field-of-view than via eyepiece.
Illuminated head loupe for near viewing (e.g. dentistry, gross anatomy) 	↑ Provides illumination & magnification. ↓ May startle near animal's face.
Monocular for long-distance viewing (e.g. observing gait behavior in horses) 	↑ Easy to carry & use. ↓ Limited field of view. Harder to track rapid motions.

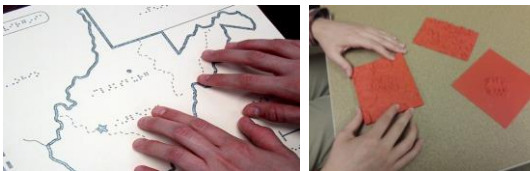
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Exploration of Digital Images

Current Solutions

- Tactile paper and 3-D prints
 - Long time to produce the physical accessible graphics
 - Much less information conveyed
 - Require human assistance to understand visual concepts



Solution proposed:

- Haptic virtual graphics
 - Real-time access to digital images with image processing techniques
 - Multimodal interaction
 - Intelligent synchronous assistance



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Lab Robotics

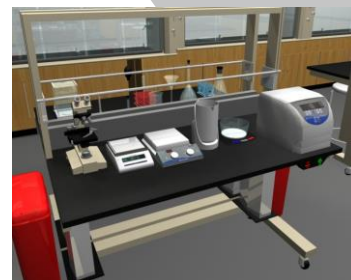
Robotic lab assistants may help with conveying or manipulating typical lab equipment.



- Multimodal control includes no-contact robot operation, e.g. gesture & speech recognition^{11,12}
- Multisensory feedback provides users remote information, e.g. auditory, haptic, temperature
- AI has potential to enable robots to understand human commands and intentions

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Virtual Lab Training



Virtual lab training prepares students with disabilities prior to developing accessibility solutions.¹³

Accessible Biomedical Immersion Lab (ABIL)

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3-D Modeling of Lab Use



- Virtual simulation can enable others to experience the lab from the perspective of SWD.¹³



- Ergonomic analysis of different users model the musculoskeletal strain of repetitive motions.¹⁴



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THANK YOU

Email: bsd@purdue.edu

Duerstock IAS Lab: <https://engineering.purdue.edu/DuerstockIAS>

IAS Hub: <https://stemedhub.org/groups/iashub>

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Friday, April 12, 2024| 2pm-3pm ET

**Accelerating Discovery with AI:
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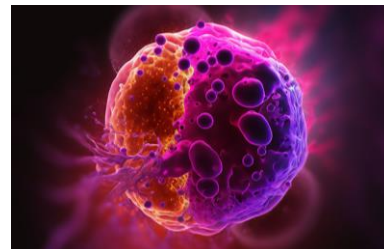


NEXT WEEK!

Wednesday, April 17, 2024| 2pm-3pm ET

**Finding New Molecules In Space With
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Thursday, April 25, 2024| 11am-12:30pm ET

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