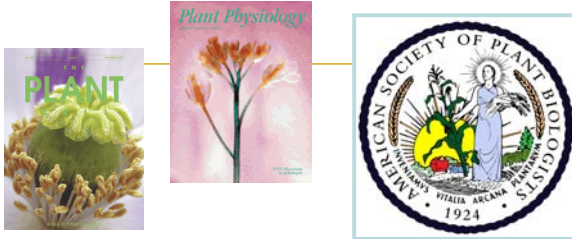


# American Society of Plant Biologists



## American Society of Plant Biologists



### Budding Plant Biologists: Growing from Clueless to Connected



Jane P. Ellis, Ph.D.  
Chair, ASPB Education Committee

## American Society of Plant Biologists



ASPB's national headquarters is located in the former *Gude Plant Sciences Center*. This 1908 brick mansion, located in the Washington, D.C. suburbs, was given to the Society by the Adolph E. Gude, Jr., family.

Monona Drive, Rockville, MD 20855-2768



Founded in 1924  
4000 - 5000 members  
(~40% international, ~ 14% Students)  
<http://www.aspb.org>

## American Society of Plant Biologists



### MISSION:

- Promote the growth and development of plant biology
- Encourage and publish research in plant biology
- Promote the interests and growth of plant scientists in general

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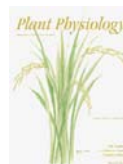
- Over the decades the Society has evolved and expanded to provide a forum for molecular and cellular biology as well as to serve the basic interests of plant science.



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- ASPB publishes the highly cited and respected journals *Plant Physiology* and *The Plant Cell*.

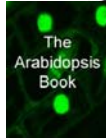


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### Publications:

- ASPB News
- The Arabidopsis Book (TAB)*  
(online free – open access)
- Plant Cell “Lecture notes” feature
- Many others



### Texts:

- Biochemistry & Molecular Biology of Plants* (senior undergraduate and graduate)
- Molecular Life of Plants* (undergraduate)



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- ASPB plays a key role in uniting the international plant science disciplines.

### ASPB's Annual Plant Biology Meeting Attracts International Attendance

- \*PB 2008 - Mexico
- \*PB 2009 - Hawaii



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- Education Committee and
- Education Foundation

make resources available to promote the teaching and learning of science using plants and to encourage plant biology as a career choice.



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### Grades K-12 - Outreach Programs

- ASPB members volunteer as resources for PK-12 schoolteachers and schoolchildren.
- Workshops, Exhibit Booths (AAAS, NSTA, NABT, SEB/FESPB-Europe), PlantingScience Mentors, Outstanding Interactive Museum Exhibits, etc.



ASPB Booth at AAAS



ASPB Workshop for teachers at NABT

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- 12 Principles of Plant Biology Booklet
  - The last page of the accompanying booklet includes suggestions for alignment into the National Research Council's Life Science Standards



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### How Many Plants in a Fast-food Burger?

- Another worksheet concerns a favorite fast food.
- Encouraging students to think about where their food comes from is a first step in developing “scientific thought” concerning plants.



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### House Plants

- How many plants are commonly found in a house?
- Two-sided flyer for teachers
- This is one example of the educational materials our members have developed.
- This work sheet is specifically aimed at the K-12 age group. The student would complete page one and then...



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### BOOKMARKS

- These colorful, two-sided bookmarks highlight various types of plants and the 12 **Principles of Plant Biology**.
- They have been produced by ASPB for use by members, teachers and students. ASPB member Carol Reiss designed the bookmarks.



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### K-12 Resource Links – Check out our Web Site for:

A compiled list of external links that have been submitted and gathered specifically for K-12 plant science. (Handouts, Activities/Inquiry based labs, Videos, Youtube videos, podcasts, Radio Programs, Links to Programs/Websites, Cool Plant Science News, etc.)

From:

- AAAS** Directorate of Education & Human Resources
  - Programs for K-12 and Higher Education devoted to the promotion of science, technology, engineering and mathematics education.

To:

- Wisconsin Fast Plants**
  - Paul Williams' Science Education and Outreach program located at the University of Wisconsin-Madison.

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### History's Harvest:

#### Where Food Comes From

- A documentary film produced by the ASPB Education Foundation. Available in VHS and DVD formats.



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### Education

- ASPB is active in promoting plant biology education through the creation of:

- Programs
- Fellowships
- Curriculum



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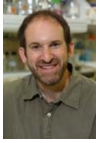
### ASPB Education Foundation Grant Awards Program (GAP)

- Support education and outreach activities which advance plant biology.
- Plant Science fills classrooms, exhibit halls, the web & the airwaves through GAP
- Plant science projects that have the potential to make positive impacts in local, regional & global understanding of plant biology

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### Past Gap Winners



- **David Stern** - Next time you are listening to National Public Radio, keep your ear tuned for *MicrobeWorld*, a 90-second spot illuminating the benefits of plant-related microbes. ASPB has awarded David Stern, president of the Boyce Thompson Institute (BTI) at Cornell, a GAP award worth \$9,975 to develop stories for the announcement.



**David Salt** - Purdue University Professor has created a three dimensional, interactive exhibit to demonstrate the benefits of plant genomics for agriculture, human health, and the environment. "Genomics Revolution Uncloaked" aims to set straight any misunderstanding the public has about the risks and benefits of modifying plant genes.

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### GAP Award – Inquiry-Based Activities to Accompany the 12 Principles of Plant Biology



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### Promoting Interest in Plant Science at the Undergraduate Level

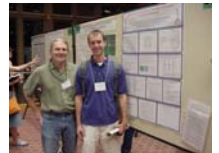
#### At Annual Meeting

- Undergraduate Poster Session and Gatherings
- Travel Grants
- Career Workshops
- Education Booth Competition at Annual Meeting
- Lab Leadership Workshops
- Grant Writing Workshops
- Education Workshops

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### The ASPB Summer Undergraduate Research Fellowship (SURF) selects 15 students each year to receive \$3,000 grants to conduct independent investigations during the summer, plus money for supplies and travel to Annual Meeting. (\*\$4,000 in 2010)



SURF Student presents his poster during ASPB annual meeting

Past ASPB Summer Undergraduate Research Fellowship recipient, **Darleen Franklin**,



Past ASPB Summer Undergraduate Research Fellowship recipient, **C. Dustin Hildenbrand**,



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### Ambassador Program (Grad Students)

- Designed to reach ASPB's mission and membership to the graduate and undergraduate student community.
- To educate these students about the importance of belonging to a professional society to enhance their career and be part of continuing the efforts of plant biology research.
- To expand ASPB's membership base to our younger constituents to ensure continued growth of the community.

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### Staying Connected

#### Google Groups

- \*Annual Meeting
- \*Ambassadors

#### Face Book

- \*ASPB Group
- \*Ambassadors

#### SciVee

#### LinkedIn

#### Twitter

- \*Plant Biology 2009
- \*ASPB

#### Research Gate

- \*PB 2009
- \*Plant Bio Discussion

#### GoDaddy

- \*Blogs
- \*Podcasts

**Member Chatter**



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### ■ Website

#### ■ Job Bank (Seekers and Listings)

\*Free Resume posting

#### ■ How to make a good poster

■ And much more ---

### ■ Promoting Good Teaching

□ \*\*Now have Teaching Award annually

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